

Sincerely,

~*~

Jaime Rudd, PhD

Pesticide & Disease Investigations

Wildlife Investigations Laboratory (WIL)

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Come see what we are about! <https://wildlife.ca.gov/Conservation/Laboratories/Wildlife-Investigations>

Message

From: Snyderman, Steven [Snyderman.Steven@epa.gov]
Sent: 5/18/2018 5:29:37 PM
To: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
CC: Biscoe, Melanie [Biscoe.Melanie@epa.gov]; Dutch, Veronica [Dutch.Veronica@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Britton, Cathryn [Britton.Cathryn@epa.gov]
Subject: RE: NPIC pet incidents

Ana,

Thanks for all this great information, I think we have all we need at time. It's my understanding that Bob already received and reviewed the NPIC Seresto data as part of the IST process.

We're still discussing internally what type of information would be most helpful for us but we will get back to you sometime next week when we have a better idea. Thanks again for your help!

Steven Snyderman, Senior Regulatory Advisor
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division
Office of Pesticide Programs
Environmental Protection Agency
Snyderman.Steven@epa.gov
(703) 347-0249

From: Rivera-Lupianez, Ana
Sent: Friday, May 18, 2018 12:39 PM
To: Britton, Cathryn <Britton.Cathryn@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>
Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: NPIC pet incidents

Hi Cathryn,

Attached are some reports that I found on my files. I believe these were submitted to us as "special interest reports" (phone call and email inquiries to NPIC) and not through the vet portal. As I mentioned, we will ask NPIC for a compilation of all Seresto incidents received.

Thanks,
Ana

From: Rivera-Lupianez, Ana
Sent: Friday, May 18, 2018 12:14 PM
To: Britton, Cathryn <Britton.Cathryn@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>
Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: NPIC pet incidents

Hi Cathryn,

I only sent you the last two reports as an example, but NPIC have provided individual reports for the last two years

Ex. 5 Deliberative Process (DP)

We can submit a data request for all incidents involving Seresto collar (ais imidacloprid and flumethrin) that have been reported to NPIC since the products were first registered. Can you provide a date range?

Thanks,

Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Britton, Cathryn

Sent: Friday, May 18, 2018 12:02 PM

To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>

Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>

Subject: RE: NPIC pet incidents

Thanks everyone for all the background.

Ana – just to clarify, I didn't see anything specific about Seresto in the FY16 or FY17 reports, is that correct?

I think we'd be interested in any/all of the reports related to Seresto that have been submitted through the vet portal.

Ana/Steven – if you two can coordinate how we can get some of this information from NPIC I'd appreciate it.

Thanks again,

Cathryn

From: Rivera-Lupianez, Ana

Sent: Friday, May 18, 2018 9:51 AM

To: Snyderman, Steven <Snyderman.Steven@epa.gov>

Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>

Subject: RE: NPIC pet incidents

Thanks for the head's up, I was not aware and I'll add Marianne to the group.

Thanks,

Ana

From: Snyderman, Steven

Sent: Friday, May 18, 2018 9:37 AM

To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>

Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>

Subject: RE: NPIC pet incidents

Ana,

That's really helpful to know. I actually just heard back from IST as well and they provided me a helpful prioritization memo with when they utilize NPIC data [attached]. Just a note, I believe Marianne Mannix is the point of contact now as Nathan Sell is no longer with the Agency.

Steven Snyderman, Senior Regulatory Advisor
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division
Office of Pesticide Programs
Environmental Protection Agency
Snyderman.Steven@epa.gov
(703) 347-0249

From: Rivera-Lupianez, Ana
Sent: Friday, May 18, 2018 9:26 AM
To: Snyderman, Steven <Snyderman.Steven@epa.gov>
Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: NPIC pet incidents

Hi Steven,

Yes, all incident reports are submitted to OPP's "NPIC Team". The team consists of staff from all OPP divisions who are responsible to forward the information to interested staff within their divisions and other stakeholders. Nathan Sell is PRD's rep, but I'll will also forward the pet incidents to you from now on. All incident reports are also reviewed in by-weekly meetings by OPP's Incident Screening Team (IST workgroup).

I'm including Bob Miller to the email chain since he receives the incidents submitted via the Vet portal. We will coordinate a conference call with NPIC at your convenience.

Please let me know if you have any questions.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Snyderman, Steven
Sent: Friday, May 18, 2018 8:57 AM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: RE: NPIC pet incidents

Ana,

Thanks so much for your help and all of this great information. My apologies for being new to this process if this is a silly questions, but when NPIC submits these incidents to the EPA to FEAD, does FEAD then distribute this information internally, and if so to whom? I'm just trying to get a better idea of how the system works.

As Cathryn mentioned, I'm helping to coordinate a discussion on how the office should address pet incidents in Registration Review. I'm still on a bit of a fact finding mission just to make sure I understand how everything works correctly, but when I've had time to talk to the team and get input from management on the appropriate path forward, can I get back to you about setting up the meeting with the NPIC grantee?

Thank you again.

Steven Snyderman, Senior Regulatory Advisor
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division
Office of Pesticide Programs
Environmental Protection Agency
Snyderman.Steven@epa.gov
(703) 347-0249

From: Rivera-Lupianez, Ana
Sent: Thursday, May 17, 2018 5:20 PM
To: Britton, Cathryn <Britton.Cathryn@epa.gov>
Cc: Snyderman, Steven <Snyderman.Steven@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>
Subject: RE: NPIC pet incidents

Hi Cathryn,

NPIC submits animal incident data reports to EPA in a regular basis. They have been sending us all incidents/ inquiries that they receive related to Seresto collars like the incident report # 2448 (attached). Also, NPIC collects data on spot-ons and submits to EPA on a quarterly and annually basis.

Veterinarians and qualified medical professionals submit pesticide-related illness reports using NPIC's "[Veterinary Incident Reporting Portal \(VIRP\)](#)" web reporting system. The data collected via NPIC's Vet portal (vet report) is submitted to EPA on quarterly and annual reports (copies of 2016 and 2017 reports are attached).

NPIC also can prepare customized data reports. I'll be happy to coordinate a meeting with the grantee to discuss your specific needs.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Britton, Cathryn
Sent: Thursday, May 17, 2018 4:24 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Snyderman, Steven <Snyderman.Steven@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica

<Dutch.Veronica@epa.gov>

Subject: NPIC pet incidents

Hi Ana,

I have a question/request for you. We have been receiving some recent updates regarding pet incidents and the seresto (flumethrin/imidacloprid) collar from the incident team.

A question was asked by Rick about the current pet incidents coming into NPIC from the vet community.

We were asked to reach out to you to help figure out what information NPIC might have to help us.

I'm copying Steven Snyderman – who is helping to coordinate this effort in PRD. I'm not sure if you know Steven, but if you have any information to share with us, please let him know.

I'm also copying Melanie and Veronica – because they are also working on flumethrin.

Thanks,
Cathryn

Message

From: Reighart, Andrew [Reighart.Andrew@epa.gov]
Sent: 4/26/2018 3:32:02 PM
To: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Mannix, Marianne [Mannix.Marianne@epa.gov]
CC: Panger, Melissa [Panger.Melissa@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]
Subject: RE: Seresto collar incident

That's fine by me – and we usually get incidents out to CRMs day of or next day so that timeline is not a problem. Thank you for the heads up!

Andrew

From: Rossmeisl, Colleen
Sent: Thursday, April 26, 2018 11:17 AM
To: Mannix, Marianne <Mannix.Marianne@epa.gov>; Reighart, Andrew <Reighart.Andrew@epa.gov>
Cc: Panger, Melissa <Panger.Melissa@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: FW: Seresto collar incident

Hi Marianne and Andrew –

This incident was forwarded to us yesterday. I would like to get it on the IST schedule to be looked at individually, as I think it would be worthwhile to have an individual narrative forwarded to the CRMs in addition to the aggregate counts we have been forwarding. There is a general meeting with HED and PRD/RD about Seresto coming up May 14th and it would be good if it could go out before then. If we saved this for the next IST meeting (May 9th) and the team agrees it is at least a Tier II, would the CRMs be able to get the notification that day or the following? I want to make sure they have it before the meeting that Monday. If not, maybe we could expedite it somehow (have an e-vote by the IST or something?).

Thanks –
Colleen

From: Rivera-Lupianez, Ana
Sent: Wednesday, April 25, 2018 4:04 PM
To: Chen, Jonathan <Chen.Jonathan@epa.gov>; Ciarlo, Timothy <Ciarlo.Timothy@epa.gov>; Crowley, Matthew <Crowley.Matthew@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Panger, Melissa <Panger.Melissa@epa.gov>; Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Sell, Nathan <Sell.Nathan@epa.gov>; Tanner, Lee <Tanner.Lee@epa.gov>
Cc: Evans, Elizabeth <Evans.Elizabeth@epa.gov>; Recore, Shanna <Recore.Shanna@epa.gov>; Hopkins, Yvette <Hopkins.Yvette@epa.gov>; Han, Kaythi <Han.Kaythi@epa.gov>
Subject: FW: Seresto collar incident

Hi,

Seresto collar incident in WV; ais: imidacloprid, flumethrin.

Thanks,
Ana

Ana Rivera-Lupiañez
Pesticide Worker Safety Programs
Office of Pesticide Programs

Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Ross, Sean [<mailto:Sean.Ross@oregonstate.edu>]
Sent: Wednesday, April 25, 2018 3:54 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Hallman, Amy S <Amy.Hallman@oregonstate.edu>; Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Seresto collar incident

Hi Ana,

We received an incident report involving a Seresto collar today. Here are the details:

Case # 2448
Lewisburg, WV

Narrative:

"Voice mail message. Returned call at 09:01 on 04/25/2018. Caller (veterinarian) wishing to report a possible adverse reaction to a Seresto collar (EPA registration number 11556-155 (active ingredients imidacloprid, flumethrin)). Caller reported that a client bought two Seresto collars from their office on 4/6/2018, and applied them to his dogs after returning home. Caller reported that within 24 hours, one of the dogs (9 year old, 63 lb neutered male Australian Shepherd mix) was brought to the emergency clinic. Caller reported that the dog cried out during the night, vomited several times, had uncontrolled urination, was ataxic, and couldn't walk. Caller reported they tested the dog for antifreeze (which was negative), did an examination, found that he had very high white blood cell count, and gave him sub-cutaneous fluids and a couple injections of medication. Caller reported that the dog recovered within 24 hours and was sent home.

Caller reported that the owner did not think that the collar was related to the dog's condition, and reapplied the collar on 4/22/2018. Within 48

hours the dog had a similar episode, with symptoms including crying out, vomiting, and possible seizures. Caller reported when he was brought to the clinic early afternoon on 4/24/2018 he was found to have "blunted mentation, knuckling, and wobbly on his rear legs". Caller reported he was tested and found to have an even higher white blood cell count, was given subcutaneous fluids and injections again, a catheter, and they tried to refer him to an emergency clinic. Caller reported that the dog passed away within two hours of presentation at the clinic. Caller reported there were no dermal symptoms observed, and they have already reported both reactions to the manufacturer (Bayer). Discussed NPIC services, including reporting process for incidents. Entered information into NPIC VIRP case # NPIC4251120. Offered to email additional information about NPIC's veterinary reporting portal, and caller provided email address. Sent requested email. Email response:

Thank you for contacting the National Pesticide Information Center (NPIC) today. As we discussed over the phone, I'm providing additional resources regarding our online Veterinary Pesticide Incident Reporting Portal. The portal was created so that veterinarians and their staff could report adverse reactions to pesticides observed in animals. This includes reactions to flea & tick products, along with any other pesticide. I have entered today's incident on your behalf; in the future you may either enter incidents directly or call and report them verbally.

Introduction to the Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/factsheets/VIRP.html>

Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/vet/>

We hope your office will consider reporting future adverse reactions to pesticides you observe in your patients. If you have any additional

questions, or you need help with any of the resources provided, please contact us at 800-858-7378, Monday - Friday from 8:00 am to 12:00 pm PT.

Caller phoned back in to provide EPA Registration Number, see log 2470. Resources used: "Registration Decision for the New Active Ingredient Flumethrin for Use in Cat and Dog Collars", & NPIC Fact Sheet."

Please let us know if you have any questions,

Sean

--

Sean Ross
National Pesticide Information Center (NPIC)
Pesticide Educational Resources Collaborative (PERC)
Oregon State University
Corvallis, Oregon, USA
Sean.Ross@oregonstate.edu
(541) 737-8093

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 4/25/2018 8:03:49 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Ciarlo, Timothy [Ciarlo.Timothy@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Rossmesl, Colleen [Rossmesl.Colleen@epa.gov]; Sell, Nathan [Sell.Nathan@epa.gov]; Tanner, Lee [Tanner.Lee@epa.gov]
CC: Evans, Elizabeth [Evans.Elizabeth@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Han, Kaythi [Han.Kaythi@epa.gov]
Subject: FW: Seresto collar incident

Hi,

Seresto collar incident in WV; ais: imidacloprid, flumethrin.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Ross, Sean [mailto:Sean.Ross@oregonstate.edu]
Sent: Wednesday, April 25, 2018 3:54 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Hallman, Amy S <Amy.Hallman@oregonstate.edu>; Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Seresto collar incident

Hi Ana,

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imidacloprid, flumethrin)). Caller reported that a client bought two Seresto collars from their office on 4/6/2018, and applied them to his dogs after returning home. Caller reported that within 24 hours, one of the dogs (9 year old, 63 lb neutered male Australian Shepherd mix) was brought to the emergency clinic. Caller reported that the dog cried out during the night, vomited several times, had uncontrolled urination, was ataxic, and couldn't walk. Caller reported they tested the dog for antifreeze (which was negative), did an examination, found that he had very high white blood cell count, and gave him sub-cutaneous fluids and a couple injections of medication. Caller reported that the dog recovered within 24 hours and was sent home.

Caller reported that the owner did not think that the collar was related to the dog's condition, and reapplied the collar on 4/22/2018. Within 48 hours the dog had a similar episode, with symptoms including crying out, vomiting, and possible seizures. Caller reported when he was brought to the clinic early afternoon on 4/24/2018 he was found to have "blunted mentation, knuckling, and wobbly on his rear legs". Caller reported he was tested and found to have an even higher white blood cell count, was given subcutaneous fluids and injections again, a catheter, and they tried to refer him to an emergency clinic. Caller reported that the dog passed away within two hours of presentation at the clinic. Caller reported there were no dermal symptoms observed, and they have already reported both reactions to the manufacturer (Bayer). Discussed NPIC services, including reporting process for incidents. Entered information into NPIC VIRP case # NPIC4251120. Offered to email additional information about NPIC's veterinary reporting portal, and caller provided email address. Sent requested email. Email response:

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Portal. The portal was created so that veterinarians and their staff could report adverse reactions to pesticides observed in animals. This includes reactions to flea & tick products, along with any other pesticide. I have entered today's incident on your behalf; in the future you may either enter incidents directly or call and report them verbally.

Introduction to the Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/factsheets/VIRP.html>

Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/vet/>

We hope your office will consider reporting future adverse reactions to pesticides you observe in your patients. If you have any additional questions, or you need help with any of the resources provided, please contact us at 800-858-7378, Monday - Friday from 8:00 am to 12:00 pm PT.

Caller phoned back in to provide EPA Registration Number, see log 2470. Resources used: "Registration Decision for the New Active Ingredient Flumethrin for Use in Cat and Dog Collars", & NPIC Fact Sheet."

Please let us know if you have any questions,

Sean

--

Sean Ross
National Pesticide Information Center (NPIC)
Pesticide Educational Resources Collaborative (PERC)
Oregon State University
Corvallis, Oregon, USA
Sean.Ross@oregonstate.edu
(541) 737-8093

Message

From: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]
Sent: 4/3/2018 1:53:36 PM
To: Panger, Melissa [Panger.Melissa@epa.gov]; Mannix, Marianne [Mannix.Marianne@epa.gov]; Reighart, Andrew [Reighart.Andrew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Mastrota, Nicholas [Mastrota.Nicholas@epa.gov]
Subject: RE: Bi-Weekly Incident Screening Meeting -- Call in Ex. 6 PP - conference code/call in number

Thanks Melissa! Yes, let's discuss. I sent these graphs to another group of folks (HED folks and some flumethrin PRD folks) that had been discussing these incidents previously and now there is a meeting I have been invited to at the end of April to discuss a path forward (which may include a plan for upper management briefing). Can discuss more details at the IST meeting next week...

From: Panger, Melissa
Sent: Tuesday, April 03, 2018 9:06 AM
To: Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Mannix, Marianne <Mannix.Marianne@epa.gov>; Reighart, Andrew <Reighart.Andrew@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Hopkins, Yvette <Hopkins.Yvette@epa.gov>; Mastrota, Nicholas <Mastrota.Nicholas@epa.gov>
Subject: RE: Bi-Weekly Incident Screening Meeting -- Call in Ex. 6 PP - conference code/call in number

Thanks for putting the graphs together on this, Colleen. My 2 cents - I think it would be a good idea to talk about this at an upcoming IST meeting.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thanks,
Melissa

Melissa Panger, Ph.D.
Senior Advisor, ERB2
Environmental Fate and Effects Division
Office of Pesticide Programs
USEPA

703-305-6136
panger.melissa@epa.gov

From: Rossmeisl, Colleen
Sent: Monday, March 26, 2018 4:21 PM
To: Mannix, Marianne <Mannix.Marianne@epa.gov>; Reighart, Andrew <Reighart.Andrew@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Panger, Melissa <Panger.Melissa@epa.gov>; Hopkins, Yvette <Hopkins.Yvette@epa.gov>; Mastrota, Nicholas <Mastrota.Nicholas@epa.gov>
Subject: RE: Bi-Weekly Incident Screening Meeting -- Call in Ex. 6 PP - conference code/call in number

So, I have missed a bunch of these meetings but I really am still on this group! (I have gotten rid of the recurrent conflicting meeting I had, so hopefully will be better at keeping up now...)

I think we talked about the pet collar stuff at a meeting about a month ago (that I missed), but I thought I would share the compilation of some of the data from the recent trends for the Seresto collar. Maybe we can discuss this at the

meeting – not sure if we would want to include this in the Q1 report (showing how we are tracking trends on certain products over time...).

Ex. 5 Deliberative Process (DP)

-----Original Appointment-----

From: Mannix, Marianne

Sent: Tuesday, January 24, 2017 3:21 PM

To: Mannix, Marianne; Ciarlo, Timothy; Reighart, Andrew; Hopkins, Yvette; Panger, Melissa; Miller, Robert; Rossmeisl, Colleen; Basu, Bilin; Berwald, Derek; Chen, Jonathan; Erickson, William; Gonzales, Angela; Hawkins, Caleb; Maignan, Tawanda; Mastrota, Nicholas; Recore, Shanna; Williams, Sanyvette; Rivera-Lupianez, Ana; Wire, Cindy

Cc: Sadaf Shaukat; Shaukat, Sadaf; Wingear, Jennifer

Subject: Bi-Weekly Incident Screening Meeting -- Call in **Ex. 6 PP - conference code/call in number**

When: Wednesday, March 28, 2018 2:15 PM-3:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: DCRoomPYS9261/Potomac-Yard-One

All – please note that the IST meeting time has been changed to 2:15 – 3.

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 7/22/2020 8:31:58 PM
To: Crowley, Matthew [Crowley.Matthew@epa.gov]; Fletcher, Rachel [fletcher.rachel@epa.gov]; McFarley, Heather [McFarley.Heather@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Mastrota, Nicholas [Mastrota.Nicholas@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Gaines, Jennifer [gaines.jennifer@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]
CC: Aubee, Catherine [Aubee.Catherine@epa.gov]; Schroeder, Carolyn [Schroeder.Carolyn@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]; Motilall, Christina [Motilall.Christina@epa.gov]
Subject: FW: Noteworthy Case from NPIC (Seresto flea collar incident)
Attachments: 2020_5726.pdf

Hi,

Attached, an incident involving a Seresto flea collar (active ingredients: imidacloprid and flumethrin). Please forward to interested staff.

Thanks,
Ana

From: Cross, Amy S <Amy.Cross@oregonstate.edu>
Sent: Wednesday, July 22, 2020 1:46 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Cases from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA notification.

Case #5726 (Seresto flea collar incident): A veterinarian emailed NPIC to report a life-threatening skin condition for a dog after use of a Seresto flea collar (imidacloprid, flumethrin). The veterinarian was interested in confirming the active ingredients of the collar through testing. The collar was purchased on Amazon.

Thanks,
Amy

--

Amy Cross, MS, Project Coordinator
National Pesticide Information Center (NPIC)
Oregon State University | Environmental and Molecular Toxicology | 541-737-6093

"Assume miscommunication, not malice."

Date: July 20, 2020

City, State: N/A

Certainty Index: Atypical

Narrative:

Email received:

I am a veterinarian who is treating a dog in NJ who has been diagnosed with a life threatening skin condition caused by a reaction to a Seresto flea and tick collar purchased from Amazon. We have the collar, and are interested in having testing done on it to confirm it is a true Seresto collar- chemical components being imidacloprid and flumethrin. I was hoping you would be able to direct me to the correct department or connect me with the right person to inquire about potentially having the collar tested at an EPA laboratory?

Email Response:

Thank you for your email. You have reached the National Pesticide Information Center at Oregon State University. We are an information service and have no regulatory authority in relation to pesticides. However, our incident reports are made available to the US EPA.

The EPA is interested in learning about adverse reactions to Seresto products. However, I am not sure if the EPA is able to provide testing services. You may consider asking them a question using this online form:

<https://publicaccess.zendesk.com/hc/en-us/requests/new>

Please call us at 800-858-7378 Monday - Friday from 8:00am to 12:00pm Pacific Time so we can further document this incident and ensure that incident information gets passed to the EPA Office of Pesticide Programs. If possible, please have the EPA registration number available when you call.

Furthermore, our website features a reporting database that veterinarians can use to report adverse effects related to pesticide products. Please consider submitting a report through this portal.

Veterinary Pesticide Adverse Effects Reporting

<http://npic.orst.edu/vet> (for use only by veterinary professionals)

An additional mode of reporting adverse effects is by contacting the manufacturer. Under FIFRA 6(a)(2), manufacturers are required to submit adverse effects information about their products to the US EPA. Manufacturer contact information can be accessed from the following link:

Manufacturer Contact Information

<http://npic.orst.edu/ingred/manuf.htm>



2020 REFERRAL TO EPA

LOG: 5726

If you suspect the product may be counterfeit, you may report this through the EPA using the following link:

Report Environmental Violations, US EPA
<https://echo.epa.gov/report-environmental-violations>

Avoid Counterfeit Pesticide Products for Dogs and Cats, US EPA
<https://www.epa.gov/pets/avoid-counterfeit-pesticide-products-dogs-and-cats>

Once again please call us at 800-858-7378 Monday - Friday from 8:00am to 12:00pm Pacific Time to speak directly to a Pesticide Specialist so we can document this adverse reaction.

Resources used: Registration Decision for the New Active Ingredient Flumethrin for Use in Cat and Dog Collars, 2012, EPA; NPIC Imidacloprid Technical Fact Sheet

Message

From: Evans, Elizabeth [Evans.Elizabeth@epa.gov]
Sent: 7/21/2020 12:41:36 PM
To: Miller, David [Miller.DavidJ@epa.gov]; Swartz, Christina [Swartz.Christina@epa.gov]
CC: Recore, Shanna [Recore.Shanna@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; VanAlstine, Julie [VanAlstine.Julie@epa.gov]
Subject: RE: Bayer Request for Flumethrin HH Incidents
Attachments: D454235.mem.pdf

TEB last created a Tier I Update on flumethrin human health incidents in late 2019 – per request of PRD for the PID. Note that in the conclusion, this incident memo includes the statement :
“Flumethrin is the active ingredient in only one end use product (Seresto Collar, Registration No. 11556-155) that was registered on March 16, 2012. This product is a pet collar used on dogs and cats to control fleas and ticks. It contains the active ingredients flumethrin and imidacloprid.”

From: Miller, David <Miller.DavidJ@epa.gov>
Sent: Monday, July 20, 2020 9:31 PM
To: Evans, Elizabeth <Evans.Elizabeth@epa.gov>
Cc: Recore, Shanna <Recore.Shanna@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; VanAlstine, Julie <VanAlstine.Julie@epa.gov>
Subject: FW: Bayer Request for Flumethrin HH Incidents

See below.

Can you please send me the flumethrin epi/incident report?

Do you know how this is typically handled. I suspect any detailed release (like a detailed report out of IDS) would require of FOIA.

I am cc'ing Bob Miller in case he has experience.

David.

From: VanAlstine, Julie <VanAlstine.Julie@epa.gov>
Sent: Monday, July 20, 2020 9:24 PM
To: Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Miller, David <Miller.DavidJ@epa.gov>
Cc: Fletcher, Rachel <fletcher.rachel@epa.gov>; Recore, Shanna <Recore.Shanna@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: RE: Bayer Request for Flumethrin HH Incidents

Hi Melanie,

I'm going to defer to David for your question since his branch would be the one doing the work.

Thanks,

Julie

Julie L. Van Alstine, Chief
Risk Assessment Branch 6
Health Effects Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
703-603-8866

From: Biscoe, Melanie <Biscoe.Melanie@epa.gov>
Sent: Monday, July 20, 2020 4:26 PM
To: VanAlstine, Julie <VanAlstine.Julie@epa.gov>; Miller, David <Miller.DavidJ@epa.gov>
Cc: Fletcher, Rachel <fletcher.rachel@epa.gov>; Recore, Shanna <Recore.Shanna@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: Bayer Request for Flumethrin HH Incidents

Julie and David,

We received the email below from Bayer. They would like to have more information on the human health flumethrin incidents cited in the latest incident report posted to the docket.

I don't recall receiving a request like this before; **should I assume we would provide them with a basic report out of IDS?** Please let me know. I also don't want to overburden David's staff if this request is more involved than it seems, so having a sense of that would be helpful.

Thanks and Best Regards,

Melanie Biscoe

Senior Regulatory Advisor, RMIB5 (Acting BC 7/20-23)
Pesticide Re-evaluation Division
Office of Pesticide Programs, US EPA
biscoe.melanie@epa.gov
703-305-7106

From: Jennifer Schofield <jennifer.schofield@bayer.com>
Sent: Thursday, July 16, 2020 2:51 PM
To: Fletcher, Rachel <fletcher.rachel@epa.gov>
Subject: Request for assistance

Dear Rachel,

Hello. I hope all is well with you. Where has the summer gone?!

May I please request your assistance? BAH is hoping to obtain the IDS data as referenced in the Tier 1 Update Review of Human Incidents and Epidemiology for Proposed Interim Decision:

"For the Main IDS for the three years from January 1, 2016 to August 27, 2019, there were 252 incidents reported that involved the active ingredient flumethrin. Nineteen of these incidents were classified as major severity. Narrative information for these 19 incidents and is found in Appendix A. Two hundred and thirty-three incidents were classified as moderate severity." (EPA-HQ-OPP-2016-0031-0031)

Would it be possible to get a copy of a report or listing of some sort?

Thank you,
Jennifer

Jennifer Schofield, DVM, CPH
Regulatory Affairs Principal Scientist

//////////

Bayer U.S. LLC
Animal Health
12707 Shawnee Mission Parkway
Shawnee, KS 66216

Tel: +1 913 268-2469
Fax: +1 913 268-2075
Mobile: +1 913 205-7915

jennifer.schofield@bayer.com

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND
POLLUTION PREVENTION

MEMORANDUM

Date: September 17, 2019

SUBJECT: **Flumethrin:** Tier I Update Review of Human Incidents and Epidemiology for
Proposed Interim Decision

PC Code: 036007
Decision No.: 555349
Petition No.: NA
Risk Assessment Type: NA
TXR No.: NA
MRID No.: NA

DP Barcode: D454235
Registration No.: NA
Regulatory Action: NA
Case No.: NA
CAS No.: 69770-45-2
40 CFR: NA

Ver. Apr. 08

FROM: Shanna Recore, Industrial Hygienist
Toxicology and Epidemiology Branch
Health Effects Division (7509P)

THROUGH: David J. Miller, Acting Branch Chief
Toxicology and Epidemiology Branch
Health Effects Division (7509P)

TO: Julie Van Alstine, Branch Chief
Risk Assessment Branch VI
Health Effects Division (7509P)
and
Rachel Fletcher, Chemical Review Manager
Risk Management & Implementation Branch 5
Pesticide Re-evaluation Division (7508P)

Summary and Conclusions

Flumethrin incidents were previously reviewed in 2016 (S. Recore and E. Evans, D435503, 9/7/2016). At that time, the Agency stated that it would continue to monitor the incident data due to the fact that the only flumethrin end use product (Seresto Collar, Registration No. 11556-155) was a relatively new product that was registered on March 16, 2012..

In the current IDS analysis from January 1, 2016 to August 27, 2019, 252 flumethrin human incidents were reported to Main IDS; there were 374 flumethrin human incidents reported to

Aggregate IDS. A query of SENSOR-Pesticides 1998-2015 identified three cases involving flumethrin. A query of NPIC from 2016 to August 14, 2019, identified three flumethrin cases.

The Agricultural Health Study (AHS) is a federally-funded study that evaluates associations between pesticide exposures and cancer and other health outcomes and represents a collaborative effort between the US National Cancer Institute (NCI), National Institute of Environmental Health Sciences (NIEHS), CDC's National Institute of Occupational Safety and Health (NIOSH), and the US EPA. Flumethrin is not included in the AHS, and therefore this study does not provide information for this report.

The Agency will continue to monitor the incident data and if a concern is triggered, additional analysis will be conducted.

Detailed Review

I. ACTION REQUESTED

Flumethrin is being considered under the FQPA-mandated Registration Review program established to review, on a 15-year cycle, pesticides for which a Re-registration Eligibility Decision has been made. Pesticide Re-Evaluation Division's, RMIB 5 has requested that TEB conduct a Tier I Update review summary of recent incident data from IDS, SENSOR, and NPIC. One component of the Agency's Registration Review Program is consideration of human incident data. In conjunction with a human health risk assessment based on other data sources, such human incident data can assist the Agency in better defining and characterizing the risk of pesticides/pesticide products.

It is important to remember that reports of adverse health effects allegedly due to a specific pesticide exposure (*i.e.*, an "incident") are largely self-reported and therefore, generally speaking, neither exposure to a pesticide or reported symptom (or the connection between the two) is validated or otherwise confirmed. Typically, causation cannot be determined based on incident data, and such data should be interpreted with caution. Nonetheless, incident information can be an important source of feedback to the Agency: incidents of severe outcome, or a suggested pattern or trend among less severe incidents, can signal the Agency to further investigate a particular chemical or product. Epidemiology studies can also be useful and relate the risk of disease, *e.g.*, cancer, and exposure to an agent such as a pesticide product in the general population or specific sub-groups like pesticide applicators.

II. BACKGROUND

Flumethrin is a synthetic pyrethroid insecticide. Flumethrin has one end use product (Seresto Collar, Registration No. 11556-155) which was registered by the Agency on March 16, 2012. This product, which also contains imidacloprid, is an eight-month collar used on dogs and cats for flea and tick control.

For this evaluation, both OPP Incident Data System (IDS), the Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health (CDC/NIOSH) Sentinel Event

Notification System for Occupational Risk-Pesticides (SENSOR) and National Pesticide Information Center (NPIC) databases were consulted for pesticide incident data on the active ingredient flumethrin (PC Code:036007). The purpose of the database search is to identify potential patterns in the frequency and severity of the health effects attributed to flumethrin exposure.

III. RESULTS/DISCUSSION

a. IDS (Incident Data System)

OPP's IDS includes reports of alleged human health incidents from various sources, including mandatory Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) Section 6(a)(2) reports from registrants, other federal and state health and environmental agencies, and individual consumers. Since 1992, OPP has compiled these reports in IDS. IDS contains reports from across the U.S. and most incidents have all relevant product information recorded. Reports submitted to the IDS represent anecdotal reports or allegations only, unless otherwise stated in the report.

IDS records incidents in one of two modules: Main IDS and Aggregate IDS:

- Main IDS generally contains incidents resulting in higher severity outcomes and provides more detail with regard to case specifics.¹ This system stores incident data for death, major and moderate incidents, and it includes information about the location, date and nature of the incident. Main IDS incidents involving only one pesticide are considered to provide more certain information about the potential effects of exposure from the pesticide.
- Aggregate IDS contains incidents resulting in less severe human incidents (minor, unknown, or no effects outcomes). These are reported by registrants only as counts in what are aggregate summaries.

For the Main IDS for the three years from January 1, 2016 to August 27, 2019, there were 252 incidents reported that involved the active ingredient flumethrin. Nineteen of these incidents were classified as major severity. Narrative information for these 19 incidents and is found in Appendix A. Two hundred and thirty-three incidents were classified as moderate severity.

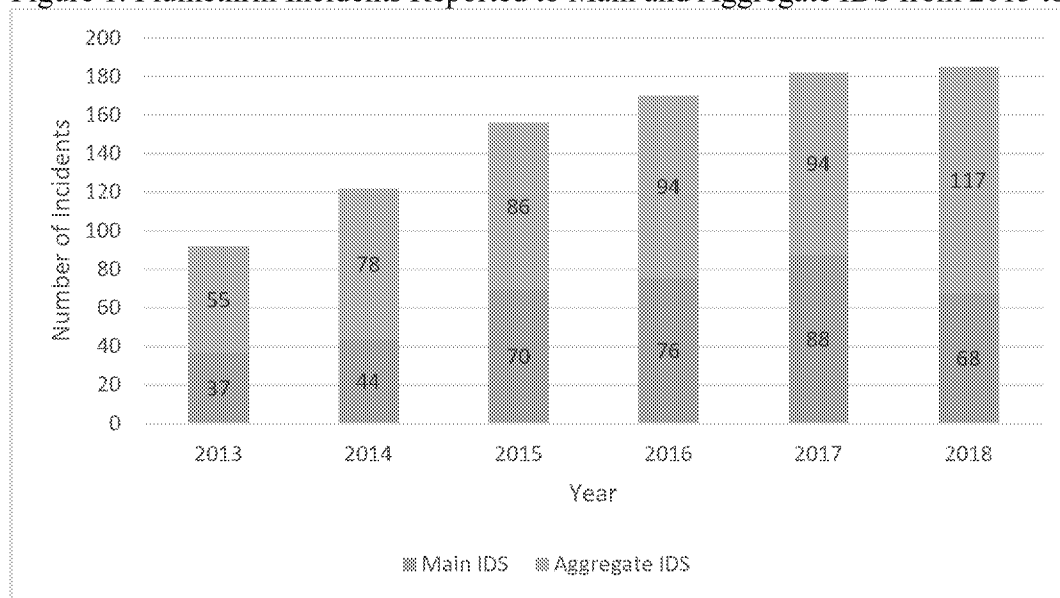
For the Aggregate IDS for the three years from January 1, 2016 to August 27, 2019, there were 374 incidents reported involving flumethrin. These incidents were classified as minor severity.

All the incidents reported to IDS involved Registration No. 11556-155 (Seresto Collar) which contains 4.5% flumethrin and 10% imidacloprid. Seresto Collar is used in dogs and cats to control fleas and ticks.

The total number of flumethrin incidents reported to Main and Aggregate IDS, from 2013 to 2018, appears to be increasing over time (Figure 1).

¹ Occasionally, low severity incidents are self-reported by the consumer directly to Main IDS.

Figure 1. Flumethrin Incidents Reported to Main and Aggregate IDS from 2013 to 2018



Of the 19 major severity incidents that were further reviewed, the symptoms most often reported were dermal (n=8) and neurological (n=7). Note that a patient could exhibit multiple symptoms. Dermal symptoms reported include rash, redness, skin lesions, hives, and pruritus. Neurological symptoms reported include headaches, numbness, tingling and one person reported seizures.

b. SENSOR-Pesticides

The Center for Disease Control's National Institute for Occupational Safety and Health (CDC/NIOSH) manages a pesticide surveillance program and database entitled the Sentinel Event Notification System for Occupational Risk (SENSOR)-Pesticides.² All cases must report at least two adverse health effects. Evidence for each case is evaluated for its causal relationship between exposure and illness based on the NIOSH case classification index.³ Using standardized protocol and case definitions, SENSOR-Pesticides state coordinators, operating out of the state's department of health, receive state pesticide incident reports from local sources, then follow up with case sources to get incident scenario to obtain medical records and verify exposure scenario information.⁴ This database includes pesticide illness case reports from multiple states from 1998-2015.⁵

A query of SENSOR-Pesticides from 2013-2015 identified three cases involving flumethrin. The three incidents were classified as low severity and are described in Appendix B.

² SENSOR-Pesticides webpage: <http://www.cdc.gov/niosh/topics/pesticides/overview.html>.

³ <https://www.cdc.gov/niosh/topics/pesticides/pdfs/casedef.pdf>

⁴ <https://www.cdc.gov/niosh/topics/pesticides/pdfs/pest-sevindexv6.pdf>

⁵ Currently participating states are: California, Florida, Illinois, Louisiana, Michigan, Nebraska, New Mexico, North Carolina, Oregon, Texas and Washington. The participating states for a given year vary depending on state and federal funding for pesticide surveillance.

c. National Pesticide Information Center (NPIC)

The National Pesticide Information Center or NPIC is a cooperative effort between Oregon State University and EPA which is funded by EPA to serve as a source of objective, science-based pesticide information and respond to inquiries from the public and to incidents. NPIC functions nationally through a toll-free telephone number in addition to the internet (www.npic.orst.edu) and email. Similar to Poison Control Centers, NPIC's primary purpose is not to collect incident data, but rather to provide information to inquirers on a wide range of pesticide topics, and direct callers for pesticide incident investigation and emergency treatment. Nevertheless, NPIC does collect information about incidents (approximately 4000 incidents per year) from inquirers and records that information in a database. NPIC is a source of national incident information but generally receives fewer reports than IDS. Regardless, if a high frequency is observed in IDS, NPIC provides an additional source of information to see whether there is evidence of consistency across national data sets or possibly duplication and additional information about the same incident(s).

From January 1, 2016 to August 14, 2019, three human incidents involving flumethrin were reported to NPIC. One incident was classified as inconsistent with flumethrin exposure and one incident was asymptomatic. These incidents were not further reviewed. The third incident was classified as minor severity. This incident involved a 74-year-old male that was exposed to the collar when a dog that was staying with him got into his bed. The following night he broke out in hives and was itching uncontrollably. He went to the ER and was treated with prednisone. He went home for 24-48 hours, had the same reaction, and went to the ER a second time. After the collar was removed from the dog he had no further symptoms. His wife (age unknown) was also sleeping in the bed and she had no symptoms.

d. Agricultural Health Study (AHS)

The AHS is a federally-funded study that evaluates associations between pesticide exposures and cancer and other health outcomes and represents a collaborative effort between the US National Cancer Institute (NCI), National Institute of Environmental Health Sciences (NIEHS), CDC's National Institute of Occupational Safety and Health (NIOSH), and the US EPA. The AHS participant cohort includes more than 89,000 licensed commercial and private pesticide applicators and their spouses from Iowa and North Carolina. Enrollment occurred from 1993 – 1997, and data collection is ongoing. The AHS maintains a list of publications resulting from AHS studies⁶. If there are AHS findings in the published literature relevant to a pesticide undergoing registration review, the Agency will ensure these findings are considered in the problem formulation/scoping phase of the registration review process and, if appropriate, fully reviewed in the risk assessment phase of the process. Flumethrin is not included in the AHS, and therefore this study does not provide information for this report.

⁶ Agricultural Health Study: Publications <https://aghealth.nih.gov/news/publications.html>

IV. CONCLUSION

Flumethrin is the active ingredient in only one end use product (Seresto Collar, Registration No. 11556-155) that was registered on March 16, 2012. This product is a pet collar used on dogs and cats to control fleas and ticks. It contains the active ingredients flumethrin and imidacloprid.

IDS, SENSOR-Pesticides, and NPIC databases were queried for flumethrin incidents. There were 252 flumethrin incidents reported to Main IDS and 374 flumethrin incidents reported to Aggregate IDS from January 1, 2016 to August 27, 2019. Nineteen of these incidents were classified a major severity, 233 incidents were classified as moderate severity and 374 were classified as minor severity. There were three low severity flumethrin incidents reported to SENSOR-Pesticide (2013-2015) and three incidents were reported to NPIC (2016-2019).

The total number of flumethrin incidents reported to IDS, from 2013 to 2018, appears to be increasing over time.

The Agency will continue to monitor the incident data and if a concern is triggered, additional analysis will be conducted.

Appendix A.

Major Severity Flumethrin Incidents Reported to Main IDS from 1/1/16 to 8/27/19				
Incident Package Report	Incident Date	Location	Product Name	Incident Description
029467 - 00005	6/27/2016	SYRACUSE, NE	SERESTO LARGE DOG	An adult male was exposed to a Seresto Large Dog Collar after the collar was applied to his dog. No direct product exposure was known. Immediately after petting the dog, he developed an erythematous rash on his arms. The rash resolved a week after the collar was removed from the dog.
029467 - 00007	2/1/2016	GA	SERESTO CAT	An adult female was exposed to a Seresto Cat collar when she applied it to her cat. At an unknown date (during the same month) post exposure, she experienced numbness and pain in her arms and legs. She was diagnosed with an unspecified inflammatory neurological disease.
029467 - 00009	8/1/2016	ARKADELPHIA, AR	SERESTO LARGE DOG	A 50-year-old female was exposed to a Seresto Large Dog collar when it was placed around the neck of her dog. On an unknown date post administration, her neck tingled and turned red after she hugged her dog. The symptoms resolved after she washed her neck. The cycle of symptoms and resolution continued every time she hugged the dog.
029516 - 00002	5/1/2016		SERESTO SMALL DOG	A 74-year-old female was exposed to a Seresto Small Dog collar when she placed around her dog's neck. Six months after application of the collar, she was examined by a physician who determined she had an unspecified interstitial lung disease.
029685 - 00005	6/27/2016		SERESTO LARGE DOG	An adult female was exposed to one Seresto Large dog collar after the collar was applied to her dog and she pet the dog. No direct product exposure with the collar was known. Immediately after petting the dog, she developed an erythematous rash on her arms. Three months later, the collar was removed. Approximately a week later, her rash resolved.
029959 - 00008	10/1/2016	PEPPERELL, MA	SERESTO LARGE DOG	A 73-year-old female was exposed to a Seresto Large Dog collar on her hands when she placed it on her dog. Six month later, she experienced skin lesions inside of her nose. Three months later, she removed the collar from the dog and the clinical sign continued but improved.
030085 - 00006	10/1/2016	BEAVER FALLS, PA	SERESTO LARGE DOG	A 37-year-old male was exposed to an unknown amount of 1 Seresto Large Dog caller when he mouthed his dog that had the collar applied on the same day. No known direct exposure to the collar. Immediately post exposure, he experienced intermittent numbing sensation on his tongue. He continued to mouth his dog and the sign continued intermittently. He removed the collar from the dog and recovered.
030303 - 00020	5/27/2017	TUNKHANNOCK, PA	SERESTO	A 58-year-old woman was exposed to 1 Seresto Cat collar and 1 Seresto large dog collar when her boyfriend applied them to the pets. Approximately one month later, she experienced ocular pain, ocular redness, blurred vision and eyelid edema. She was examined by an ocular physician who determined there was an eye infection.

030314 - 00004	5/1/2017	CHESTER, IL	SERESTO SMALL DOG	A 43-year-old male was exposed to 8 collars on his hands when he applied then to the dogs in his home. He was also exposed to the collars when four of the dogs slept in his bed each night. Approximately one-week post exposure, he developed nasal congestion, a bleeding skin lesion on his ear, ear drainage, a nasal irritation, and a throat irritation. He was examined by a physician who determined that he had a hole in the ear drum and started medication. He also removed the 8 dog collars from his dogs. The ear drainage resolved. He replaced the 8 dog collars and approximately 10 days later, his ear drainage returned.
030475 - 00002	1/1/2016	EASTLAKE, OH	SERESTO DOG (UNSPECIFIED)	An 83-year-old male was exposed to multiple Seresto Dog collars that were worn by his neighbor's dogs when he played with and pet them. An unspecified date post exposure, he developed a pruritic rash on his hands, arms, back and legs.
030589 - 00001	4/30/2017	FLEETWOOD, PA	SERESTO LARGE DOG	An adult female was exposed to two Seresto Large Dog collars when she nuzzled her dogs face to face. She developed a rash on her chin and lower eye lids. Three months later, she replaced her dogs' collars with new Seresto collars and approximately four hour later, the clinical signs worsened.
030942 - 00006	12/25/2017	IA	SERESTO (UNSPECIFIED)	A 34-year-old male was secondarily exposed to the collar when he was in the home of his parent's dog who was wearing the collar around its neck. Approximately four hours post exposure, he experienced generalized pruritus and hives on both arms. When he left the dog's residence, the clinical signs improved but continued.
031139 - 00010	6/1/2016	LILLIAN, AL	SERESTO (UNSPECIFIED)	An 84-year-old female was exposed to multiple collars when she applied them to her dog and 9 cats without wearing gloves. Sometime after exposure, she experienced a tingling sensation in her entire body, the sensation of the right side of the body being asleep and difficulty using the right arm and right hand.
031139 - 00012	5/1/2017	PLYMOUTH, MA	SERESTO DOG (UNSPECIFIED)	A 78-year-old male with asthma and allergies was exposed to a Seresto dog collar when his dog would rest against his neck. He had a tick removed from his neck and experienced a lesion and localized pruritus. The next month he experienced a lesion under his arm and localized pruritus. He was tested for Lyme disease and other tick-borne illnesses and the results were negative.
031139 - 00014	10/1/2017	ALVERTON, PA	SERESTO DOG (UNSPECIFIED)	An 80-year-old female to one dog collar. She developed a digestive tract disorder.
031139 - 00015	5/2/2018	BARNEVELD, WI	SERESTO LARGE DOG	A 67-year-old woman was exposed to 1 Seresto Large Dog collar when should would pet the dog and slept in the same bed as the dog after the collar was applied. Two days later, she experienced fatigue and heart flutter (arrhythmia).
032334 - 00009	2/15/2019	OLIVER SPRINGS, TN	SERESTO DOG (UNSPECIFIED)	On 14-Feb-2019, a 12-year-old, 130-pound boy in unknown condition, with the concomitant medical conditions of a digestive tract disorder NOS and elevated blood pressure. that was taking 15 mg of Lisinopril by mouth daily since an unknown date in 2019, was secondarily exposed to an unknown amount of a Seresto Dog (unspecified) collar that was worn by the dog in the home since approximately 14-Feb-2019, and the dog slept in the bed with the boy. It was unknown if direct contact with the collar occurred. On approximately, 15-Feb-2019, the boy experienced intermittent grand mal seizures, 1 episode of emesis that resolved approximately 5 minutes post onset and mental impairment. A toxicology blood screening

				<p>panel and other unspecified blood panel were performed and were both within normal limits. The boy continued to have intermittent seizures and was examined by a pediatrician on emergency. Magnetic Resonance Imaging testing was performed of the brain with the results within normal limits. Approximately 12 hours post onset, the boy recovered. It was unknown if treatments were performed. The boy remained hospitalized for observation. On 19-Feb-2019, the boy was released from the hospital. On 26-Jun-2019, the boy had a follow up exam performed with a pediatric neurologist. An electroencephalogram was performed and showed normal brain activity .</p>
030787 - 00003	5/1/2017	TUCKERTON, NJ	SERESTO LARGE DOG	<p>In approximately May 2017, an adult female was exposed to a Seresto Large Dog collar when she placed it on her dog. Sometime after that in May 2017, the she exhibited an unspecified eye disorder. She was examined by 5 different physicians and an allergy specialist. It was determined that she had an allergy. No known treatments were provided and the clinical signs continued. In Dec 2017, the individual removed the collar from the dog. The clinical signs continued.</p>
030787 - 00006	6/1/2017	HARRISBURG, PA	SERESTO DOG (UNSPECIFIED)	<p>A 68 year old female with concomitant medical conditions of arthritis, osteoarthritis of the hand, carpal tunnel syndrome, a chronic renal disorder NOS, bile duct disorder NOS, gastric esophageal reflux disease (gastric irritation), heartburn, hypothyroidism, hypertension, osteoporosis (bone and joint disorder NOS), atrial fibrillation, pancreatic lesion (pancreas disorder), stenosing tenosynovitis/trigger finger (tendon injury), vitamin D deficiency, Fuchs corneal dystrophy (eye disorder NOS), corneal ulcer (corneal disorder NOS), diplopia esotropia (diplopia). posterior capsule opacification (eye disorder NOS), peripheral vascular disorder, anterior basement membrane dystrophy (eye disorder NOS) and abducens (6th) nerve palsy (cranial nerve disorder), was exposed to 1 Seresto Large Dog collar while the dog slept with her each night.</p> <p>Sometime post exposure she experienced double vision. She was examined by multiple physicians (neurologist, primary care physician, prism eye doctor and a general eye doctor) and had multiple tests performed (MRI, fluorescein, various ocular tests, CT scan and bloodwork). No abnormalities were found.</p> <p>In June 2017, the individual experienced headaches and one eye was unable to move (eye disorder NOS). She was examined by a physician, hospitalized for 3 days, and administered an unspecified dose of intravenous fluids. It was determined by physicians that the woman had an unspecified nerve palsy (cranial nerve disorder).</p> <p>Sometime after that she removed the collar from the dog. Sometime later she replaced the collar on her dog and her clinical signs worsened.</p>

Appendix B.

Flumethrin Incidents Reported SENSOR-Pesticide from 2013-2015			
Year	State	Severity	Incident Description
2013	North Carolina	Low	An adult woman was exposed to the collar when it was applied to her dog. She experienced a rash.
Not Available	New York	Low	The case was exposed to the collar when she 1) slept with dogs while the dogs were wearing their collar, 2) exposed to collar while trying to restrain dogs, and 3) placed collar on her bare skin (stomach). She experienced rhinitis, urticaria, pruritus, erythema, eye irritation, conjunctivitis, nasal irritation and nasal discharge, and ocular irritation
2013	New York	Low	A veterinarian applied the collar to the case's dog. The collar accidentally broke open on the case's hands. She experienced nausea, blurred vision, and heart palpitations

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 12/6/2017 7:58:02 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Ciarlo, Timothy [Ciarlo.Timothy@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Sell, Nathan [Sell.Nathan@epa.gov]; Tanner, Lee [Tanner.Lee@epa.gov]
CC: Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Overstreet, Anne [overstreet.anne@epa.gov]; Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]
Subject: FW: Noteworthy Case from NPIC (Seresto Collar incident)
Attachments: 2017-10266.pdf

Hi,

Seresto flea collar Incident in PA.

Thanks,

Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Hallman, Amy S [mailto:Amy.Hallman@oregonstate.edu]
Sent: Wednesday, December 06, 2017 1:50 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>; Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA referral.

Case #10266 (Reaction to Seresto Flea Collar): An owner reported his dog experienced a seizure about 3-4 days after a Seresto flea collar was applied. The collar was removed but the dog suddenly passed away about one week later.

Thanks,
Amy

--

Amy Hallman, MS, Project Coordinator
National Pesticide Information Center (NPIC)
Oregon State University | Environmental and Molecular Toxicology | [541-737-6123](tel:541-737-6123)



2017 REFERRAL TO EPA

LOG: 10266

Date: December 6, 2017

City, State: Avonmore, PA

Narrative: Caller seeking to report an incident involving EPA registration number 11556-155 (active ingredients imidacloprid, cyano (4-fluoro 3-phenoxyphenyl)methyl 3-[2-chloro-2-(4-chlorophenyl)ethenyl]-2,2-dimethylcyclopropanecarboxylate] [NPIRS]). Caller reported his dog (3 years, unknown weight, fixed male, German shepherd) died after use of a Seresto Flea Collar on 11/29/17, one week before the NPIC call. Caller said the collar was put on the dog on 11/12/17 and that about 3-4 days later, the dog had a seizure with the collar still on. Caller reported he took the collar off the dog and then about a week-and-a-half later, he and the dog were out in the woods on his farm, the dog ran up to him and then fell over dead. Caller reported he already talked to the manufacturer, who he said asked for the product's lot number and told him it was impossible for the collar to have affected his dog in that way. Caller reported he also talked to his vet afterward and that his vet told him there were no blood or other tests to show the product in the dog's system. Caller said he also already talked to EPA. Caller further reported that he's used the same collars on other animals before with no issues and so wondered if it was a bad lot, but then got to researching and found concerns with the collars going back to 2014. Caller reported that he has alpacas, horses, cats and dogs on his home farm.

Discussed NPIC services, including that NPIC does not have regulatory authority, but that the State Lead Pesticide Agency was the entity in his area responsible for regulation of pesticide use, including having an office for incident reporting; provided state lead contact. Discussed the Consumer Product Safety Commission as another resource for complaints relating to products sold in the U.S.; provided contact. Discussed how NPIC collects data that is accessible for review by the EPA, including in relation to the reregulation review process.

Resources used:

Hazardous Substances Data Bank (HSDB)

California EPA "Summary of toxicology data, flumethrin"

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 6/24/2019 2:09:19 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Mastrotta, Nicholas [Mastrotta.Nicholas@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]
CC: Lloyd, Matthew [Lloyd.Matthew@epa.gov]; Han, Kaythi [Han.Kaythi@epa.gov]; Evans, Elizabeth [Evans.Elizabeth@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]; Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]
Subject: FW: Seresto Incident in NY
Attachments: 2019_4711.pdf

Hi,
Another Seresto (active ingredients imidacloprid, flumethrin) flea collar incident reported to NPIC. Please forward to interested staff.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Ross, Sean <Sean.Ross@oregonstate.edu>
Sent: Friday, June 21, 2019 6:43 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Hughes, Cameron C <Cameron.Hughes@oregonstate.edu>; Cross, Amy S <Amy.Cross@oregonstate.edu>
Subject: Seresto Incident

Hello Ana,

We had a Seresto call today. I've attached the incident report.

Please let us know if you have any questions.

Sean

--

Sean Ross
National Pesticide Information Center (NPIC)
Pesticide Educational Resources Collaborative (PERC)
Oregon State University
Corvallis, Oregon, USA
Sean.Ross@oregonstate.edu
(541) 737-8093



2019 REFERRAL TO EPA

LOG: 4711

Date: 6/21/2019

City, State: LONG ISLAND, NY

Narrative for log 4711: Caller seeking health and incident reporting information related to the use of a Seresto Flea Collar (active ingredients imidacloprid, flumethrin) on a dog. Caller reported that for the last five years, she has used the product on her dog (5.5 year old, 60 pound neutered male Beagle/Redtick Coonhound mix). Caller reported that the dog has never had any reaction to the product before. Caller reported that five days ago (06/16/2019) her dog had a seizure. Caller reported that she took the dog to the emergency veterinarian the next day (06/17/2019). Caller reported that the dog has recovered from the issue. Caller reported that she was wanting to report the incident, as she was concerned that it might happen again. Caller reported that she called the manufacturer of the product, but reported that they informed her that their call center was down due to a bad storm in the area. Caller reported that they have used the product as a preventative measure, and reported that they have never noticed ticks in their area. Caller asked about the potential health risks related to the situation, and asked if seizures were a reaction that had been commonly reported.

Discussed risk equation concepts, including toxicity and routes of exposure. Discussed potential health effects of exposure to the active ingredients (NPIC Imidacloprid Fact Sheet, Recognition and Management of Pesticide Poisonings: Pyrethroids, Inchem: Flumethrin). Discussed NPIC services, including a lack of regulatory authority.

Provided contact information for State Lead Pesticide Agency for regulatory information. Provided contact information for Biointegral Resource Center (BIRC) for pest control information.

Message

From: Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]
Sent: 6/21/2019 3:40:55 PM
To: Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]
CC: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Eagle, Venus [Eagle.Venus@epa.gov]; Breeden-Alemi, Julie [Breeden-Alemi.Julie@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Britton, Cathryn [Britton.Cathryn@epa.gov]
Subject: Re: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Quentin,

Please go ahead and send the response.

Sent from my iPhone

On Jun 21, 2019, at 11:33 AM, Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov> wrote:

This just in from HED:

Original Information Request:

Can you provide information for this woman Ex. 6 Personal Privacy (PP) from a veterinary clinic in OH? She contacted Region 5 yesterday about a dog incident involving a flea and tick collar. The dog apparently recovered immediately after the collar was removed, but then died the next day and had no other medical history. She reported it through the NPIC portal (partially pasted below), but *she wants to know if there are any tests that can be done with the corpse – tissues, etc. to help determine whether the collar contributed.*

- **HED Response:** HED does not have a veterinarian on staff, so instead consulted with the EPA-funded National Pesticide Information Center (NPIC) to obtain guidance on possible tests that can be done with the corpse/tissues to determine whether the collar contributed to the death of the animal. NPIC's consulting veterinarian is a DVM-Ph.D. (Toxicology), and provided the following guidance: (1) Liver, kidney, urine, and feces are the most useful to retrieve and examine; and (2) It may be difficult to fully evaluate immune response, but IgE in serum/blood might be something to test for with respect to the possibility of anaphalactic shock and should possibly be considered as well. The NPIC veterinarian did indicate that he felt that even if this concentration in tissue information was obtained, it would still be difficult to reliably link the use of the collar to the death of the animal.

Quentin Borges-Silva
[EPA's Office of Pesticide Programs](#)
"Protecting Human Health & the Environment"

From: Siedschlag, Gregory
Sent: Thursday, June 20, 2019 8:27 AM
To: Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>
Cc: Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Ok, thanks. Very helpful. Quentin will take the lead on this for us – he'll be in touch with any questions.

Best,

Greg Siedschlag
Chief, Communication Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
Phone: (703) 603-9044
Cell: (571) 255-0284
<https://www.epa.gov/pesticides>

From: Rossmeisl, Colleen
Sent: Thursday, June 20, 2019 7:06 AM
To: Aubee, Catherine <Aubee.Catherine@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Greg –

Yes, that would be my suggestion to loop them into the conversation. I am happy to chat with them to put things in context, I am just not sure who the folks are on the team. And if you can give us a sense of how much detail you want to respond with, I can help if more information is needed.

However, just a note on availability, I am in meetings all day starting at 9, so may not be immediately responsive.

Thanks!
Colleen

From: Aubee, Catherine
Sent: Thursday, June 20, 2019 6:55 AM
To: Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>; Britton, Cathryn <Britton.Cathryn@epa.gov>
Subject: Re: Request for Information RE: Seresto Flea and Tick Collar Incident

Further, suggestion from Colleen:

[The HED chemical teams might have] the quickest knowledge on which recent public documents have information on uptake, metabolism, etc. for these chemicals.

Also looping in PRD.

On Jun 20, 2019, at 6:50 AM, Aubee, Catherine <Aubee.Catherine@epa.gov> wrote:

Thanks, Greg. It's an unusual question. Colleen and Julie (CC'd) may be able to help with technical input. Let me know if there are any regulatory questions.

I took Amy Mysz off the cc list here but we will want to include her when the response is provided.

Best,
Catherine

On Jun 19, 2019, at 11:38 PM, Siedschlag, Gregory <Siedschlag.Gregory@epa.gov> wrote:

Hi Catherine,

We can take the lead, but do you have any thoughts on people who could help us answer this question? I'm still fairly new here and haven't seen a question like this before.

Thanks,

Greg Siedschlag
Chief, Communication Services Branch
Office of Pesticide Programs
U.S. Environmental Protection Agency
Phone: (703) 603-9044
Cell: (571) 255-0284
<https://www.epa.gov/pesticides>

From: Aubee, Catherine
Sent: Wednesday, June 19, 2019 10:29 AM
To: Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Mysz, Amy <mysz.amy@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Greg,

Would FEAD like to take the lead on this response? Let us know how we can help.

It is time sensitive given that they are requesting info about biological samples.

Bob, cc'ing you for awareness.

Best,
Catherine
Chief, OPP RD IVB1

From: Mysz, Amy
Sent: Tuesday, June 18, 2019 7:13 PM
To: Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>
Subject: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi,

Can you provide information for this woman Ex. 6 Personal Privacy (PP) from a veterinary clinic in OH? She contacted Region 5 yesterday about a dog incident involving a flea and tick collar. The dog apparently recovered immediately after the collar was removed, but then died the next day and had no other medical history. She reported it through the NPIC portal (partially pasted below), but she wants to know if there are any tests that can be done with the corpse – tissues, etc. to help determine whether the collar contributed.

The product information she provided is: Seresto Flea and Tick Collar for dogs 18 lbs and over, EPA Registration No. 11556-155, EPA Est No 11556-DEU-1. Active ingredients: Flumethrin 4.5% and Imidacloprid 10%

She would appreciate any direction or suggestions you can provide, if any.

Thanks,
Amy

From: Ex. 6 Personal Privacy (PP)
Sent: Monday, June 17, 2019 7:13 PM
To: Mysz, Amy <mysz.amy@epa.gov>
Subject: Seresto Flea and Tick Collar

Hello we spoke earlier about a Mastiff who died the day after having a seresto collar put on him. I have submitted a report to the site you recommended. Bayer's veterinarian is insisting the collar could have no way shape or form had any negative impact on the dog despite the necropsy results from The Ohio department of agriculture showing no underlying disease or apparent cause of death and suggests based on the severe congestion on the liver and lung "shock, possibly anaphylactic shock, Is a potential differential". Do you have any suggestions on what else we could possibly test for to prove or disapprove the collar had anything to do with it? Below is pictures of the report I submitted.

<image001.png>

Thank you!

Ex. 6 Personal Privacy (PP)

Sent from my iPhone

Message

From: Godfrey, Victoria (HC/SC) [victoria.godfrey@canada.ca]
Sent: 10/11/2017 3:29:27 PM
To: Miller, Robert [Miller.Robert@epa.gov]
Subject: PMRA Review of Seresto incidents
Attachments: FINAL Seresto Sub Support 15APR16.docx

Hi Bob,

Attached is our Review of the Seresto incidents, both human and domestic animal (with more focus on the domestic animal, as it was the bulk of the data received). We sent it to EPA originally back in July 2016.

Hope you find it helpful. If you have any questions, please let me know.

Thanks

Vicky

Message

From: Mysz, Amy [mysz.amy@epa.gov]
Sent: 6/21/2019 3:04:28 PM
To: Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]
CC: Eagle, Venus [Eagle.Venus@epa.gov]; Breeden-Alemi, Julie [Breeden-Alemi.Julie@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Great, thank you.

FYI: I referred her in the meantime to the ASPCA Animal Poison Control Center and the Pet Poison Helpline in case they could help.

From: Borges-Silva, Quentin
Sent: Friday, June 21, 2019 10:00 AM
To: Mysz, Amy <mysz.amy@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>
Cc: Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Amy.

We're working on a response. Hopefully, we'll have something for you later today.

Quentin Borges-Silva
EPA's Office of Pesticide Programs
"Protecting Human Health & the Environment"

From: Mysz, Amy
Sent: Friday, June 21, 2019 10:57 AM
To: Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>
Cc: Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>; Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi,

Has anyone had a chance to respond to this? (or I'm happy to pass along any information you provide). Just want to close the loop at our end.

Thank you,
Amy

From: Siedschlag, Gregory
Sent: Wednesday, June 19, 2019 10:39 PM
To: Aubee, Catherine <Aubee.Catherine@epa.gov>
Cc: Mysz, Amy <mysz.amy@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>;

Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>

Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Catherine,

We can take the lead, but do you have any thoughts on people who could help us answer this question? I'm still fairly new here and haven't seen a question like this before.

Thanks,

Greg Siedschlag

Chief, Communication Services Branch

Office of Pesticide Programs

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Phone: (703) 603-9044

Cell: (571) 255-0284

<https://www.epa.gov/pesticides>

From: Aubee, Catherine

Sent: Wednesday, June 19, 2019 10:29 AM

To: Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>

Cc: Mysz, Amy <mysz.amy@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>

Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi Greg,

Would FEAD like to take the lead on this response? Let us know how we can help.

It is time sensitive given that they are requesting info about biological samples.

Bob, cc'ing you for awareness.

Best,

Catherine

Chief, OPP RD IVB1

From: Mysz, Amy

Sent: Tuesday, June 18, 2019 7:13 PM

To: Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>

Subject: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi,

Can you provide information for this woman Ex. 6 Personal Privacy (PP) from a veterinary clinic in OH? She contacted Region 5 yesterday about a dog incident involving a flea and tick collar. The dog apparently recovered immediately after the collar was removed, but then died the next day and had no other medical history. She reported it through the NPIC portal (partially pasted below), but she wants to know if there are any tests that can be done with the corpse – tissues, etc. to help determine whether the collar contributed.

The product information she provided is: Seresto Flea and Tick Collar for dogs 18 lbs and over, EPA Registration No. 11556-155, EPA Est No 11556-DEU-1. Active ingredients: Flumethrin 4.5% and Imidacloprid 10%

She would appreciate any direction or suggestions you can provide, if any.

ED_005739A_00423541-00002

Thanks,
Amy

From: **Ex. 6 Personal Privacy (PP)**

Sent: Monday, June 17, 2019 7:13 PM

To: Mysz, Amy <mysz.amy@epa.gov>

Subject: Seresto Flea and Tick Collar

Hello we spoke earlier about a Mastiff who died the day after having a seresto collar put on him. I have submitted a report to the site you recommended. Bayer's veterinarian is insisting the collar could have no way shape or form had any negative impact on the dog despite the necropsy results from The Ohio department of agriculture showing no underlying disease or apparent cause of death and suggests based on the severe congestion on the liver and lung "shock, possibly anaphylactic shock, Is a potential differential". Do you have any suggestions on what else we could possibly test for to prove or disapprove the collar had anything to do with it? Below is pictures of the report I submitted.



Route(s) of
Exposure:

dermal

Additional

Details of

Exposure:

The seresto collar was places loosely around the dogs neck.

Toxicity/signs:

neurological:tremor,neurological:excited,gastrointestinal:vomiting,other

Additional

Details Of

Toxicity:

The dog was in clear respiratory distress he had difficulty moving air into the lungs his breathing was audible upon inhalation he was also coughing gaging and vomiting yellow/white froth. He also became ataxic and had a head tilt.

Onset of

Symptoms:

30

Outcome:

death

Additional

Details Of

Outcome:

The dogs condition continued to deteriorate until the collar was removed roughly 2-5 minutes after the collar was removed the dog was able to breath normally he started to shake like he was going into a seizure then stopped once he was able to stand he was very ataxic and had a head tilt. 100mg of Benadryl was given. The dog appeared to make a uneventful recovery within 2 hours of the collar being removed. His owner reported him acting completely normal until the following afternoon when he suddenly became unresponsive and died within minutes. The body was submitted to the Ohio Department of agriculture for a necropsy and histopathology. The comments from the pathologist state " the most striking lesion noted microscopically was moderate to severe congestion of the liver and lung. And exact cause of the congestion was not determined, but shock, possibly anaphylactic shock, is a potential differential. Microscopic lesion suggestive of cardiomyopathy was not observed." Dr. Jeffery Hayes.

Additional Information (optional)

Edit

Additional information:

Back to Report Form

Add/View Optional Notes

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Thank you!

Ex. 5 Personal Privacy (PP)

Sent from my iPhone

Message

From: Aubee, Catherine [Aubee.Catherine@epa.gov]
Sent: 6/20/2019 10:50:55 AM
To: Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]
CC: Eagle, Venus [Eagle.Venus@epa.gov]; Breeden-Alemi, Julie [Breeden-Alemi.Julie@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]
Subject: Re: Request for Information RE: Seresto Flea and Tick Collar Incident

Thanks, Greg. It's an unusual question. Colleen and Julie (CC'd) may be able to help with technical input. Let me know if there are any regulatory questions.

I took Amy Mysz off the cc list here but we will want to include her when the response is provided.

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Catherine

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<https://www.epa.gov/pesticides>

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Cc: Mysz, Amy <mysz.amy@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: Request for Information RE: Seresto Flea and Tick Collar Incident

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Bob, cc'ing you for awareness.

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Catherine
Chief, OPP RD IVB1

From: Mysz, Amy

Sent: Tuesday, June 18, 2019 7:13 PM

To: Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>

Subject: Request for Information RE: Seresto Flea and Tick Collar Incident

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She would appreciate any direction or suggestions you can provide, if any.

Thanks,
Amy

From: [Ex. 6 Personal Privacy (PP)]

Sent: Monday, June 17, 2019 7:13 PM

To: Mysz, Amy <mysz.amy@epa.gov>

Subject: Seresto Flea and Tick Collar

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<image001.png>

Thank you!

[Ex. 6 Personal Privacy (PP)]
Sent from my iPhone



Route(s) of Exposure:	dermal
Additional Details of Exposure:	The seresto collar was places loosely around the dogs neck.
Toxicity/signs:	neurological:tremor,neurological:excited,gastrointestinal:vomiting,other
Additional Details Of Toxicity:	The dog was in clear respiratory distress he had difficulty moving air into the lungs his breathing was audible upon inhalation he was also coughing gaging and vomiting yellow/white froth. He also became ataxic and had a head tilt.
Onset of Symptoms:	30
Outcome:	death
Additional Details Of Outcome:	The dogs condition continued to deteriorate until the collar was removed roughly 2-5 minutes after the collar was removed the dog was able to breath normally he started to shake like he was going into a seizure then stopped once he was able to stand he was very ataxic and had a head tilt. 100mg of Benadryl was given. The dog appeared to make a uneventful recovery within 2 hours of the collar being removed.
Additional Details Of Outcome:	His owner reported him acting completely normal until the following afternoon when he suddenly became unresponsive and died within minutes. The body was submitted to the Ohio Department of agriculture for a necropsy and histopathology. The comments from the pathologist state " the most striking lesion noted microscopically was moderate to severe congestion of the liver and lung. And exact cause of the congestion was not determined, but shock, possibly anaphylactic shock, is a potential differential. Microscopic lesion suggestive of cardiomyopathy was not observed." Dr. Jeffery Hayes.

Additional Information (optional)[Edit](#)

Additional information:

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Message

From: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]
Sent: 6/19/2019 10:13:45 AM
To: Mastrota, Nicholas [Mastrota.Nicholas@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]
CC: Panger, Melissa [Panger.Melissa@epa.gov]
Subject: FW: Request for Information RE: Seresto Flea and Tick Collar Incident

See below.

I assume we would get this full report forwarded to us from NPIC and it will be included in cases for the high priority incident workgroup?

From: Mysz, Amy
Sent: Tuesday, June 18, 2019 7:13 PM
To: Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Breeden-Alemi, Julie <Breeden-Alemi.Julie@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>
Subject: Request for Information RE: Seresto Flea and Tick Collar Incident

Hi,

Can you provide information for this woman (Ex. 6 Personal Privacy (PP)) from a veterinary clinic in OH? She contacted Region 5 yesterday about a dog incident involving a flea and tick collar. The dog apparently recovered immediately after the collar was removed, but then died the next day and had no other medical history. She reported it through the NPIC portal (partially pasted below), but she wants to know if there are any tests that can be done with the corpse – tissues, etc. to help determine whether the collar contributed.

The product information she provided is: Seresto Flea and Tick Collar for dogs 18 lbs and over, EPA Registration No. 11556-155, EPA Est No 11556-DEU-1. Active ingredients: Flumethrin 4.5% and Imidacloprid 10%

She would appreciate any direction or suggestions you can provide, if any.

Thanks,
Amy

From: (Ex. 6 Personal Privacy (PP))
Sent: Monday, June 17, 2019 7:13 PM
To: Mysz, Amy <mysz.amy@epa.gov>
Subject: Seresto Flea and Tick Collar

Hello we spoke earlier about a Mastiff who died the day after having a seresto collar put on him. I have submitted a report to the site you recommended. Bayer's veterinarian is insisting the collar could have no way shape or form had any negative impact on the dog despite the necropsy results from The Ohio department of agriculture showing no underlying disease or apparent cause of death and suggests based on the severe congestion on the liver and lung "shock, possibly anaphylactic shock, Is a potential differential". Do you have any suggestions on what else we could possibly test for to prove or disapprove the collar had anything to do with it? Below is pictures of the report I submitted.



Route(s) of
Exposure:

dermal

Additional

Details of

Exposure:

The seresto collar was places loosely around the dogs neck.

Toxicity/signs:

neurological:tremor,neurological:excited,gastrointestinal:vomiting,other

Additional

Details Of

Toxicity:

The dog was in clear respiratory distress he had difficulty moving air into the lungs his breathing was audible upon inhalation he was also coughing gaging and vomiting yellow/white froth. He also became ataxic and had a head tilt.

Onset of

Symptoms:

30

Outcome:

death

Additional

Details Of

Outcome:

The dogs condition continued to deteriorate until the collar was removed roughly 2-5 minutes after the collar was removed the dog was able to breath normally he started to shake like he was going into a seizure then stopped once he was able to stand he was very ataxic and had a head tilt. 100mg of Benadryl was given. The dog appeared to make a uneventful recovery within 2 hours of the collar being removed. His owner reported him acting completely normal until the following afternoon when he suddenly became unresponsive and died within minutes. The body was submitted to the Ohio Department of agriculture for a necropsy and histopathology. The comments from the pathologist state " the most striking lesion noted microscopically was moderate to severe congestion of the liver and lung. And exact cause of the congestion was not determined, but shock, possibly anaphylactic shock, is a potential differential. Microscopic lesion suggestive of cardiomyopathy was not observed." Dr. Jeffery Hayes.

Additional Information (optional)

Edit

Additional information:

Back to Report Form

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Thank you!

Ex. 5 Personal Privacy (PP)

Sent from my iPhone

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 6/11/2019 3:57:08 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Mastrotta, Nicholas [Mastrotta.Nicholas@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Han, Kaythi [Han.Kaythi@epa.gov]
CC: Evans, Elizabeth [Evans.Elizabeth@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]
Subject: FW: Noteworthy Case from NPIC (seresto collar)
Attachments: 2019_4168.pdf

Hi,
Pet incident involving use of Seresto collar (ai flumethrin) in NC.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Cross, Amy S <Amy.Cross@oregonstate.edu>
Sent: Tuesday, June 11, 2019 11:35 AM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA referral.

Case #4168 (Seresto flea collar incident): A caller reported scratching at the collar site and bleeding after her dog (160 pound English Mastiff) wore the collar for one week. She called to ask if those symptoms were normal.

I wanted to check-in about the current usefulness of the spot-on reports we're sending.

- Do you still want to receive these Seresto incidents as noteworthy cases?
- Do you still want to receive the spot-on supplemental reports as part of each quarterly report?

Thanks,
Amy

--

Amy Cross, MS, Project Coordinator

National Pesticide Information Center ([NPIC](#))

Oregon State University | Environmental and Molecular Toxicology | 541-737-6093

Date: June 10, 2019

City, State: Vaughan, NC

Narrative: Caller seeking health information about whether it was normal for her dog (2 year old neutered male, 160 pounds, english mastiff) to have bleeding skin where he had been wearing a Seresto Flea Collar (active ingredients flumethrin, imidacloprid, per product label on manufacturer website) for 1 week. Caller reported the dog had been wearing a second collar (no active ingredients) that hid the affected neck area and so she just recently noticed the symptoms. Caller reported she noticed the dog scratching at his neck. Caller asked if these symptoms were normal. Caller reported she did not have any additional product information. Caller reported the dog did not have symptoms beyond the bleeding skin and reported a family member was currently taking the dog to the veterinarian.

Discussed NPIC services, including lack of medical training and collection of incident data. Discussed the option for NPIC to discuss symptoms and discussed obtaining additional product information (product active ingredients located after end of inquiry). Discussed contacting the product manufacturer to further report the adverse reaction and provided their contact information. Resources Used: Hazardous Substances Data Bank (HSDB) (imidacloprid); Human Health Draft Risk Assessment for Registration Review Imidacloprid 2017; Human Health Scoping Doc for Reg Review 2016 (flumethrin); Human Health Risk Assessment for Reg Review 2018 (flumethrin)

Message

From: Aubee, Catherine [Aubee.Catherine@epa.gov]
Sent: 2/26/2020 10:23:49 PM
To: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Laws, Meredith [Laws.Meredith@epa.gov]; Eagle, Venus [Eagle.Venus@epa.gov]; Herrick, Jacquelyn [Herrick.Jacquelyn@epa.gov]; Shuler, Jamey [Shuler.Jamey@epa.gov]
CC: Miller, Robert [Miller.Robert@epa.gov]; Mastrotta, Nicholas [Mastrotta.Nicholas@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]; McFarley, Heather [McFarley.Heather@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Schroeder, Carolyn [Schroeder.Carolyn@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]
Subject: Re: Noteworthy Case from NPIC- Seresto Flea Collars (flumethrin, imidacloprid)

Thank you, Ana.

Best,
Catherine

On Feb 26, 2020, at 5:17 PM, Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov> wrote:

Hi,

NPIC received an inquiry regarding a Seresto Flea Collar incident (flumethrin, imidacloprid). Incident report is attached. Please forward to interested staff.

Thanks,

Ana

<image002.png>

Ana Rivera-Lupiañez

Pesticide Worker Safety Programs

Office of Pesticide Programs

Environmental Protection Agency

rivera-lupianez.ana@epa.gov

(703) 308-6841

<image004.png>

Spread the word about the National Pesticide Information Center (NPIC)!

From: Cross, Amy S <Amy.Cross@oregonstate.edu>
Sent: Wednesday, February 26, 2020 4:58 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA notification.

Case #932 (Seresto flea collar incident): An owner reported lethargy and diarrhea for her two dogs one day after application of Seresto Flea Collars (flumethrin, imidacloprid). She reported the collars were

removed, both dogs were treated by a veterinarian, and both dogs recovered, but wished to report the incident.

Thank you,
Amy

--

Amy Cross, MS, Project Coordinator

National Pesticide Information Center ([NPIC](#))

Oregon State University | Environmental and Molecular Toxicology | 541-737-6093

<2020_932.pdf>

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 2/26/2020 10:17:41 PM
To: Miller, Robert [Miller.Robert@epa.gov]; Mastrotta, Nicholas [Mastrotta.Nicholas@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]; McFarley, Heather [McFarley.Heather@epa.gov]
CC: Crowley, Matthew [Crowley.Matthew@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Schroeder, Carolyn [Schroeder.Carolyn@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]
Subject: FW: Noteworthy Case from NPIC- Seresto Flea Collars (flumethrin, imidacloprid)
Attachments: 2020_932.pdf

Hi,

NPIC received an inquiry regarding a Seresto Flea Collar incident (flumethrin, imidacloprid). Incident report is attached. Please forward to interested staff.

Thanks,
Ana

Ana Rivera-Lupiañez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

Spread the word about the [National Pesticide Information Center \(NPIC\)](#)!

From: Cross, Amy S <Amy.Cross@oregonstate.edu>
Sent: Wednesday, February 26, 2020 4:58 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA notification.

Case #932 (Seresto flea collar incident): An owner reported lethargy and diarrhea for her two dogs one day after application of Seresto Flea Collars (flumethrin, imidacloprid). She reported the collars were removed, both dogs were treated by a veterinarian, and both dogs recovered, but wished to report the incident.

Thank you,
Amy

—

Amy Cross, MS, Project Coordinator
National Pesticide Information Center ([NPIC](#))
Oregon State University | Environmental and Molecular Toxicology | 541-737-6093

Date: February 25, 2020

City, State: Atchison, KS

Certainty Index: Atypical

Narrative: Caller seeking incident reporting information related to the use of Seresto Flea Collar (active ingredients flumethrin, imidacloprid) on two dogs (8-year-old 70-pound neutered female Golden Retriever, 10-month-old 60-pound neutered male Golden Retriever). Caller reported that last summer (08/2019), she used the collars on both of her dogs. Caller reported that she had had a dog die previously from the use of a pet medicine product (NexGard). Caller reported that was the reason she chose the collar instead. Caller reported that one day after putting the collars on her dogs, they both became lethargic and had diarrhea. Caller reported that she stopped using the collars that same day. Caller reported that she took both of the dogs to the veterinary office, and reported that both of her dogs were treated and recovered. Caller reported that her female dog also recently used Bravecto. Caller reported that the dog nearly died. Caller reported that she was wanting to report the incidents.

Discussed the difference between products considered to be pesticides versus drugs, including how they are used, labelled, and regulated. Discussed NPIC services, including a lack of regulatory authority.

Provided contact information for FDA Pet Product line for incident reporting information.
Provided contact information for State Lead Pesticide Agency for incident reporting information.

References used: NPIC Imidacloprid Fact Sheet, UKPID Monograph: Flumethrin, Toxicology, HSDB: Imidacloprid.

Message

From: Aubee, Catherine [Aubee.Catherine@epa.gov]
Sent: 1/17/2020 2:21:34 PM
To: Miller, Robert [Miller.Robert@epa.gov]; Shuler, Jamey [Shuler.Jamey@epa.gov]
CC: Metzger, Autumn [Metzger.Autumn@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Herrick, Jacquelyn [Herrick.Jacquelyn@epa.gov]; Laws, Meredith [Laws.Meredith@epa.gov]
Subject: RE: Seresto Deaths
Attachments: I032901.pdf

Thank you, Bob. Please include Jackie as the PM on these emails.

Best,
Catherine

From: Miller, Robert <Miller.Robert@epa.gov>
Sent: Friday, January 17, 2020 9:15 AM
To: Shuler, Jamey <Shuler.Jamey@epa.gov>
Cc: Aubee, Catherine <Aubee.Catherine@epa.gov>; Metzger, Autumn <Metzger.Autumn@epa.gov>; Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>
Subject: Seresto Deaths

Hi Jamie,

We received a new Seresto incident report yesterday (see attachment). Unfortunately reports of pets having seizures after a Seresto collar place on their pets Ex. 5 Deliberative Process (DP)

Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

From: Ex. 6 PP – personal name
To: Miller, Robert
Subject: Seresto collars killed my 2 dogs
Date: Thursday, January 16, 2020 3:21:09 PM

Dear Mr. Miller

THIS IS THE STORY OF MY 2 CAVACHON LIL BUDDIES DANNY 10 1/2 DOMINIC 5. I JUST LOST THE 2ND 1 DOMINIC YESTERDAY SATURDAY IN THE LAST 21 DAYS PLEASE READ.

DEAR Bayer : Makers of Seresto flea & tick collar

I am writing this letter telling you at Bayer my experience with your Seresto collars. I bought 4 collars for my 4 dogs on 5/6/19 at the Abington animal hospital in Abington Ma. I have a female 13 1/2 yr old Cocker spaniel, a male 2 yr old Golden doodle, & 2 male Cavachons 10 1/2 & yrs old. On Thursday 6/6/19 @ 3am my 5 yr old Cavachon Dominic had a seizure, we immediately took the collar off him along with the Danny our other Cavachon & had our son at home take the collars off our other 2 dogs. Dominic vomited pooped & had muscle weakness during the night. he seemed to bounce back some the next day. Later that same day 6/6/19 at 4:15 pm my 10 1/2 yr old Cavachon Danny had a seizure. We took him to the Country Veterinary clinic in carver ma near my seasonal camper in carver. There he was examined They did blood work & checked him out & couldn't find & issue other than hi sugar & phosphorous levels. They said try feeding both dogs boiled chicken & rice or boiled hamburg & rice or pasta. later that night Dominic had another episode where he fell over & vomited & pooped all over our campers deck. He was lethargic all day on Friday 6/7/19, He would not eat anything. The 10 1/2 yr old Danny was lethargic early in the day he perked up in the mid afternoon & ate chicken & pasta while Dominic remained lethargic.

On the morning of Saturday 6/8/19 my 10 1/2 yr old Danny had another seizure with coughing. He was laying down in our camper kitchen floor as we patted him to bring him out of it. Suddenly his legs started to stiffen & started wrenching back & forth towards each other as he died at my feet. We brought Danny's body back to the vet at the Country Vet clinic that morning when they opened. The Dr took him in the back room to do an autopsy after they closed at noon. We came back at 11am with Dominic who remained lethargic & still was not eating. he did blood work & iv fluids to hydrate him. Dominic's blood work showed hi phosphorous levels like Danny's but his blood sugar was normal compared to Danny. he thought Dannels hi sugar was caused by the seizure. Dr Simpson's autopsy did not show any abnormalities of any of Danny's organs kidneys liver, lungs, stomach. He had some thickening of the arteris around his heart which may have caused the cough he had along with the hi pollen this spring. Dr Simpson still could not find a reason for all that had happened to our cavachons & the seizures that they had 15 hours apart from each other.

My dogs are always with us they got into nothing that might cause these problems what so ever. We looked up the ingredients of the Seresto collars especially the HIGHLY TOXIC pesticides used by the name IMIDACLOPRID & FLUMETHRIN. We found that every symptom both our little dogs had can be caused by this pesticide that you use in these collars. the only thing we did different with our dogs is to get them these Seresto collars. Now my Danny is dead & as i write this on 6/17/19. My Dominic has showed some improvement but is still far from the active & playful dog he was before his seizure on 6/6/19. We took Dominic back to the vet on Monday 6/10/19 where he received more iv fluids & shots of prednisone & an anti neahsea to help his appetite out. he also gave us pills of both meds to give him for 5 days. The vet gave Dominic as he went 5 days without eating but just drinking some special dog food. On Wednesday 6/13/19 Dominic finally ate some without us feeding him. His back legs were still weak where we had to carry him down to go the bathroom. On Thursday 6/13/19 he finally went down then back up the stairs on his own, the same on Friday 6/14/19. By the end of friday & after a few short walks his back legs were still weak trying to stand. He finally moved his bowels on Friday 6/14/19 2 times. On Saturday 6/15/19 his birthday at around 5:10 pm he kind of rolled over & couldn't get up. My wife picked him up but he seems just dead tired. He has been eating a little better each day but has continued to vomit on occassion. Dominic is at best 1/2 of what he was before hi 1st seizure on 6/6/19 @ 3AM. i'm just hoping

there's no neurologogical damage IMIDACLOPRID can cause. The vet told us he could not rule out the collars from causing these symptoms in our beloved pets Danny & Dominic. My regular vet of the Abington animal hospital where we bought the collars. He basicly said it's like hitting the lottery it's possible the collars may have caused it. both vets said what are the odds of 2 dogs 1 month after putting these collars on them having seizures 15 hours apart from each other.

My wife & i truly believe your collar killed my prescious dog Danny& has almost caused Dominic to die twice on 6/8/19 & 6/9/19. We have spent \$285 for the 4 collars we bought our dogs that wore them for 1 month to the day 5/6/19 – 6/6/19. It killed 1 dog & another is still fighting the effects of them as i write this letter on 6/17/19. Then throw in my vet bills treating 2 dogs & getting another 1 checked out its over \$1,500. I will tell you this now i will tell every pet owner i know in person & others on social media what i truly believe what your Seresto flea & tick collar did to our beloved family pets. I'm also sending with this letter my \$15 rebate for each of the collars i purchased for my 4 dogs. Wow isn't that nice, a big \$60 back for my poor dead Danny & possibly another dog dying down the road or never being his playful energetic self again.

Thank you for a horrible 2 weeks. This is the letter i sent to Bayer earlier last week along with my rebate mail in for the collars. I cant wait to hear from them if they even do.

As of yesterday 6/29/19 Dominic passed away after not eating for the last 5 days on his own . My wife & i were actually force feeding him by spoon he was throwing it up meds & food then the water. He got an anti nausea shot on 6/27/19 by the vet along with pills for the same. He just got worse & worse till he passed. Now he's back with Danny in doggie heaven as he's also been grief stricken from Danny's passing 3 weeks ago to the day. Dom Dom as we called him was the black & white dog. these were my best dogs ever Danny got me thru 10 surgeries over a 9 year period with Dom Dom also there for a few. these cavachons are the most loving & happy dogs i have ever had & now they're gone over a chemical collar that can kill your dog by the pesticides in them. I truly believe it killed them both & feel the need to warn all you pet owners. Right now my beloved dom dom is in my fridge because the other hospital i brought him too after he passed didnt have a fridge only freezers. I am going to bring him to the treating vet tomorrow monday july 1st so he can autopsy Dominic if he has been in a freezer they can't do it.

-002

The vet called me with what he found on Doms autopsy on 7/1/19. He said all Doms organs showed no problems whatsoever. Even his stomach throughout all his vomiting the last 3 weeks & his loss of appetite which was a complete loss the last 6 days. When we brought Dom to him on Thursday 6/27/19 he gave him an anti nausea shot & some pills for that & see if he would try eating. If that didn't work he said you may have to go to a animal hospital & maybe have a scope to see what his stomach problem is. So when I asked would a scope have done or found anything he said no his stomach was fine. He said he took specimen samples from liver & other organs to be sent out to a lab. He also talked to Bayer the maker of the Seresto collars. They say the collars don't do this but they will pick up the cost of the lab work. Isn't that so nice of them their product killed my beloved dogs. God forbid this get out & slow down their profits on the collars that can kill pets across the country. It's all about profit over pet health. The vet again told me he can't rule out the collars he just doesn't understand how a healthy 5 year old like Dominic died when he shouldn't be dead now. I've looked online & found many hundreds of pets & their owners going thru the exact thing we went thru. Some dogs survived others didn't. I makes me sick to think this is allowed by a company like Bayer but then I also found out they bought Monsnato . Monsanto has been killing people for over 100 years with their cancer causing products so what is the problem if they are killing pets now.

This is the letter i sent to bayer after my 2nd dog dominic died on 6/29/19. Feel free to call me for any questions on this.

Ex. 6 PP – personal name

Ex. 6 PP – personal phone

Message

From: Shuler, Jamey [Shuler.Jamey@epa.gov]
Sent: 1/16/2020 1:56:28 PM
To: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]
CC: Herrick, Jacquelyn [Herrick.Jacquelyn@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]
Subject: Seresto (Flumethrin + Imidacloprid) - Data Incidents

Hi Colleen,

I am in the process of aggregating data for the Seresto (Flumethrin + Imidacloprid) product's incidents and supportive actions that may reduce risk and adverse effects towards those particular incidents. Along with this task, I am to provide a white paper to managerial staff that highlight all mentioned. When given a chance, I would love to meet with you and go over some things. I have included my PM (Jackie Herrick), as she will be monitoring my progress and be heavily involved. I have also brought Bob Miller to the conversation, as we have started combing through some of the data found. Thank you!

Best Regards,

Jamey Shuler
Environmental Protection Specialist
Invertebrate-Vertebrate Branch 1
Registration Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
(703) 347-8036
Shuler.Jamey@epa.gov

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 10/2/2017 7:22:35 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Ciarlo, Timothy [Ciarlo.Timothy@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Sell, Nathan [Sell.Nathan@epa.gov]; Tanner, Lee [Tanner.Lee@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]
CC: Hopkins, Yvette [Hopkins.Yvette@epa.gov]
Subject: FW: Noteworthy Case from NPIC - Seresto Flea Collar
Attachments: 2017-8944.pdf

Another Seresto flea collar incident.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Hallman, Amy S [mailto:Amy.Hallman@oregonstate.edu]
Sent: Monday, October 02, 2017 2:02 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC - Seresto Flea Collar

Hi Ana,

I'm passing along an incident related to Seresto Flea Collars. Are you still interested in receiving these incidents as FYIs?

Case #8944 (Seresto Flea Collar): A caller reported symptoms for herself after applying Seresto Flea Collars (flumethrin, imidacloprid) to her three indoor animals. She reported close contact with the animals; her symptoms included swollen lips and tongue, eye swelling, lips tingling and burning, and blisters inside her mouth. No symptoms were reported for her animals.

Thanks,
Amy

--

Amy Hallman, MS
Project Coordinator
National Pesticide Information Center
Oregon State University
Department of Environmental and Molecular Toxicology
amy.hallman@oregonstate.edu
541-737-6093

Date: October 2, 2017

City, State: St. Louis, MO

Narrative: Caller (age 63) seeking information on how long her reaction to a Seresto Flea Collar (active ingredients flumethrin, imidacloprid) may last, and wants to report her reaction. Caller reported that she applied a collar to her two cats and small dog 9 days ago, and by the next evening her lips and tongue were swollen, her eyes were beginning to swell, she had tingling and burning inside her mouth and on her lips, and she had blisters form inside her mouth. Caller reported she picks up and carries her dog frequently throughout the day, and each time she picks it up she kisses it on the head. Caller reported that it took several days before she realized that the collar was the only thing that had changed in the house, and she removed the collars four days after she had put them on.

Caller reported she called the manufacturer (Bayer Healthcare) on the day she removed the collars, was told that in rare cases people do have these reactions, was advised to use vitamin E on her skin, and to shampoo the animals. Caller reported she washed all of the animals that day. Caller reported that the next day (four days ago) she went to the urgent care, was given a steroid shot and a 5-day supply of steroids, and was told to not use the vitamin E oil. Caller reported that the swelling has gone down, but the tingling and burning on her lips and mouth are still present, and it has influenced her ability to eat and has a hard time eating anything with salt because it burns. Caller reported there were no symptoms for any of her animals from the collars. Caller reported she has since returned the collars and their packaging back to the store where she bought them.

Discussed NPIC services, including the inability to provide medical treatment advice. Discussed risk equation concepts, including toxicity and routes of exposure. Discussed the toxicity of the active ingredients, and reported symptoms from exposure to them (NPIC Fact Sheet, "Inchem UKPID Monograph Flumethrin", & "NY DEQ Human Health Assessment Flumethrin - 2012"). Discussed providing the Recognition and Management of Pesticide Poisonings to her medical provider as a resource for toxicology information on active ingredients, and provided NPIC website.

Message

From: Rivera-Lupianez, Ana [Rivera-Lupianez.Ana@epa.gov]
Sent: 8/14/2018 3:46:50 PM
To: Chen, Jonathan [Chen.Jonathan@epa.gov]; Ciarlo, Timothy [Ciarlo.Timothy@epa.gov]; Crowley, Matthew [Crowley.Matthew@epa.gov]; Mannix, Marianne [Mannix.Marianne@epa.gov]; Miller, Robert [Miller.Robert@epa.gov]; Panger, Melissa [Panger.Melissa@epa.gov]; Recore, Shanna [Recore.Shanna@epa.gov]; Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]
CC: Snyderman, Steven [Snyderman.Steven@epa.gov]; Hopkins, Yvette [Hopkins.Yvette@epa.gov]; Han, Kaythi [Han.Kaythi@epa.gov]
Subject: FW: Noteworthy Case from NPIC (Seresto)
Attachments: 2018-6768.pdf

Hi,

Seresto flea collar (ais flumethrin, imidacloprid) incident in FL.

Thanks,

Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Hallman, Amy S [mailto:Amy.Hallman@oregonstate.edu]
Sent: Tuesday, August 14, 2018 10:51 AM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Jenkins, Jeffrey James <Jeffrey.Jenkins@oregonstate.edu>
Subject: Noteworthy Case from NPIC

Hi Ana,

We had a case reported recently that met criteria for EPA referral.

Case #6768 (Seresto Flea Collar Incident): An owner reported symptoms for two small dogs (chihuahuas) after wearing the collar for several weeks. One animal required a blood transfusion after seizures, the other was lethargic, not eating, and vomiting until the collar was removed.

Thanks,

Amy

—

Amy Cross Hallman, MS, Project Coordinator
National Pesticide Information Center (NPIC)
Oregon State University | Environmental and Molecular Toxicology | 541-737-6123

Date: August 13, 2018

City, State: Milton, FL

Narrative: Caller seeking health information about whether Seresto Flea Collars (active ingredients flumethrin, imidacloprid, per caller) could cause symptoms in two of her dogs. Caller reported one of her dogs is in the ICU right now. Caller reported the dog (male, neutered, 13 years old, Chihuahua, 5.5-6 pounds) had been wearing a collar for over one month. Caller reported the dog had some sort of infection and then he began "cluster seizing" and "staggering" and she brought him to the ER last night. Caller reported he had a blood transfusion. Caller reported she took the collar off of the dog when he was seizing. Caller reported the dog is not eating. Caller reported the doctors thought that the symptoms could be caused by cancer. Caller reported she mentioned the collar to the doctors but they did not seem to think it could be related. Caller reported the dog was put in an oxygen chamber. Caller reported the second dog that had a reaction (female, spayed, 13 years old, Chihuahua, 7-8 pounds) had the collar on for a "couple weeks" and was lethargic, not eating, and throwing up. Caller reported she took the collar off of the dog and now she is "back to normal." Caller reported she has begun to do research on the collars and saw that the EPA is collecting data on incidents. Caller reported she spoke with the collar manufacturer and they told her that it was impossible for the dog's symptoms to be related to the collar because the collars are only topical. Caller reported the manufacturer suggested a bath because the ingredients can stay on the skin for 48 hours. Caller reported the manufacturer told her that they have completed many trials and dogs have not had adverse reactions. Caller reported she could not find an EPA registration number on the can. Caller reported she has "numerous" dogs and purchased 16 collars. Caller reported she purchased the products online and it said it was from the U.S. Caller reported the directions on the product label are all in French. Caller reported she put the correct size collar on given each of the dogs. Caller asked if she could have access to information about incidents related to pet collars.

Discussed required manufacturer reporting to the EPA of adverse reactions to pesticide products. Discussed ongoing monitoring of pet product incidents by the EPA and discussed NPIC services, including providing incident data to the EPA. Discussed EPA registration numbers on pesticide products, including ensuring legal registration of the product with the EPA. Provided contact information for the EPA for possible information about manufacturer reporting related to pet products. Discussed providing the caller's veterinarian with the names of the active ingredients in the collar. Discussed potential health effects of exposure to imidacloprid (NPIC Imidacloprid Fact Sheet) and flumethrin (Flumethrin Human Health Risk Assessment for Reg Review 2018). Resources Used: Recognition and Management of Pesticide Poisonings: Chapter 4 Pyrethrins and Pyrethroids, Flumethrin Human Health Risk Assessment for Reg Review 2018, NPIC Imidacloprid Technical Fact Sheet

Message

From: Miller, Robert [Miller.Robert@epa.gov]
Sent: 6/7/2018 6:28:46 PM
To: Miller, Robert [Miller.Robert@epa.gov]
Subject: FW: NPIC pet incidents
Attachments: GY2017Vet.pdf; GY2016Vet.pdf; GY2017Spoton.pdf; 2448_2018.pdf

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7502P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

From: Rivera-Lupianez, Ana
Sent: Friday, May 18, 2018 7:44 AM
To: Miller, Robert <Miller.Robert@epa.gov>
Subject: FW: NPIC pet incidents

Hi Bob,

Forgot to copy you on this email. Will keep you informed.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Rivera-Lupianez, Ana
Sent: Thursday, May 17, 2018 5:20 PM
To: Britton, Cathryn <Britton.Cathryn@epa.gov>
Cc: Snyderman, Steven <Snyderman.Steven@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>
Subject: RE: NPIC pet incidents

Hi Cathryn,

NPIC submits animal incident data reports to EPA in a regular basis. They have been sending us all incidents/ inquiries that they receive related to Seresto collars like the incident report # 2448 (attached). Also, NPIC collects data on spot-ons and submits to EPA on a quarterly and annually basis.

Veterinarians and qualified medical professionals submit pesticide-related illness reports using NPIC's "[Veterinary Incident Reporting Portal \(VIRP\)](#)" web reporting system. The data collected via NPIC's Vet portal (vet report) is submitted to EPA on quarterly and annual reports (copies of 2016 and 2017 reports are attached).

NPIC also can prepare customized data reports. I'll be happy to coordinate a meeting with the grantee to discuss your specific needs.

Thanks,
Ana

Ana Rivera-Lupiáñez
Pesticide Worker Safety Programs
Office of Pesticide Programs
Environmental Protection Agency
rivera-lupianez.ana@epa.gov
(703) 308-6841

From: Britton, Cathryn
Sent: Thursday, May 17, 2018 4:24 PM
To: Rivera-Lupianez, Ana <Rivera-Lupianez.Ana@epa.gov>
Cc: Snyderman, Steven <Snyderman.Steven@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Dutch, Veronica <Dutch.Veronica@epa.gov>
Subject: NPIC pet incidents

Hi Ana,

I have a question/request for you. We have been receiving some recent updates regarding pet incidents and the seresto (flumethrin/imidacloprid) collar from the incident team.

A question was asked by Rick about the current pet incidents coming into NPIC from the vet community.

We were asked to reach out to you to help figure out what information NPIC might have to help us.

I'm copying Steven Snyderman – who is helping to coordinate this effort in PRD. I'm not sure if you know Steven, but if you have any information to share with us, please let him know.

I'm also copying Melanie and Veronica – because they are also working on flumethrin.

Thanks,
Cathryn

Veterinary Incident Report

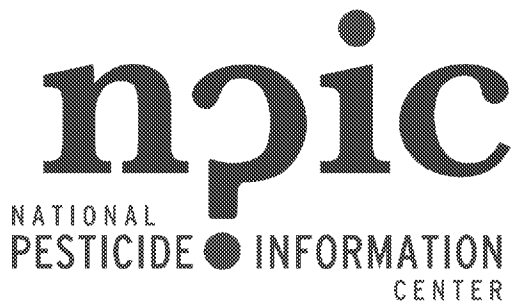
Prepared For: EPA

Prepared By: NPIC

GY2017 Veterinary Incident Report

Data range: 2/15/2017 - 2/14/2018

Prepared: Wed Mar 14 14:42:07 PDT 2018



Terms of use:

The person/party for whom this report was requested/prepared, as identified in this report, agrees to the following information:

- 1) NPIC does not guarantee the accuracy or veracity of these reports;
- 2) NPIC does not assume any responsibility for any misuse of this information;
- 3) NPIC does not assume that reporting parties will be responsive to follow-up contact regarding reported information;

NPIC does not review the reports for:

- 1) legitimate veterinary personnel or clinics
- 2) toxicological or medical information reported, or
- 3) circumstances surrounding the exposure

The use of this report in part or entirety by the person/party for whom the report was requested/prepared signifies acceptance by that person/party of the above conditions.

Veterinary Incident Report

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

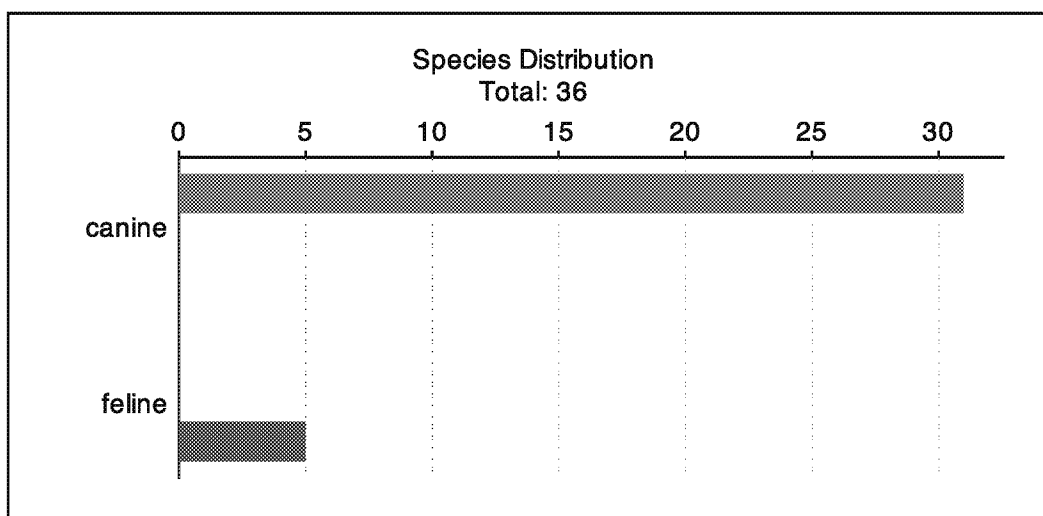
Executive Summary:

The following pages summarize 34 pesticide incidents reported to NPIC via the "Veterinary Incident Reporting Portal (VIRP)" web reporting system (<http://npic.orst.edu/vet/>). This report includes: 2/15/2017 - 2/14/2018

The 34 reported incidents involved 36 animals of 2 species (31 canine, 5 feline). The animals exhibited 72 symptoms from various exposures to 36 products.

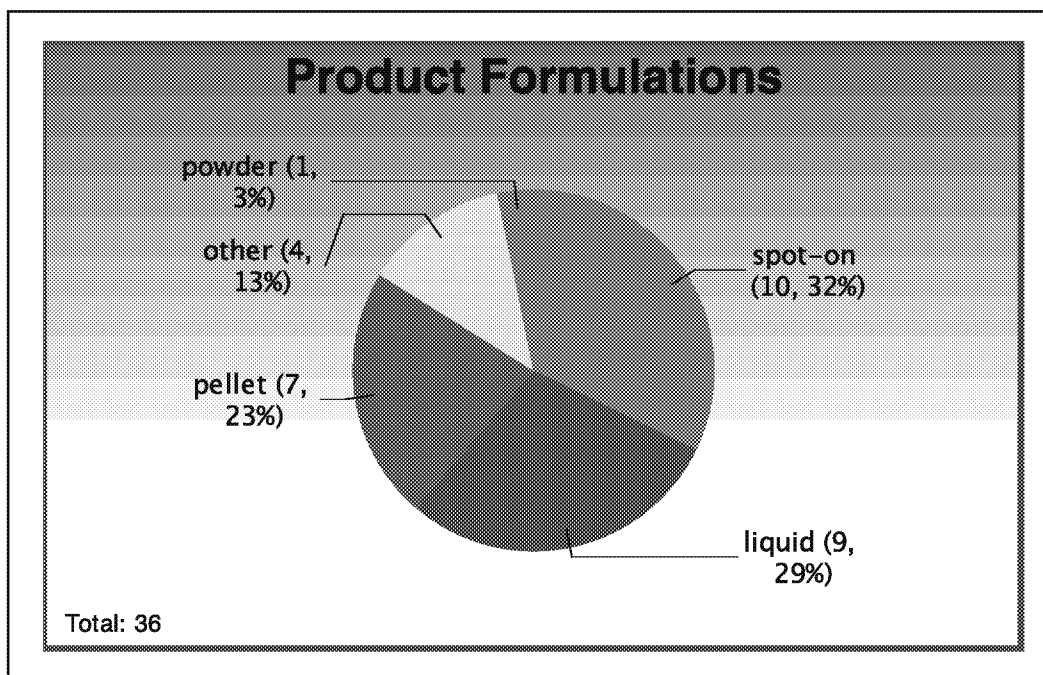
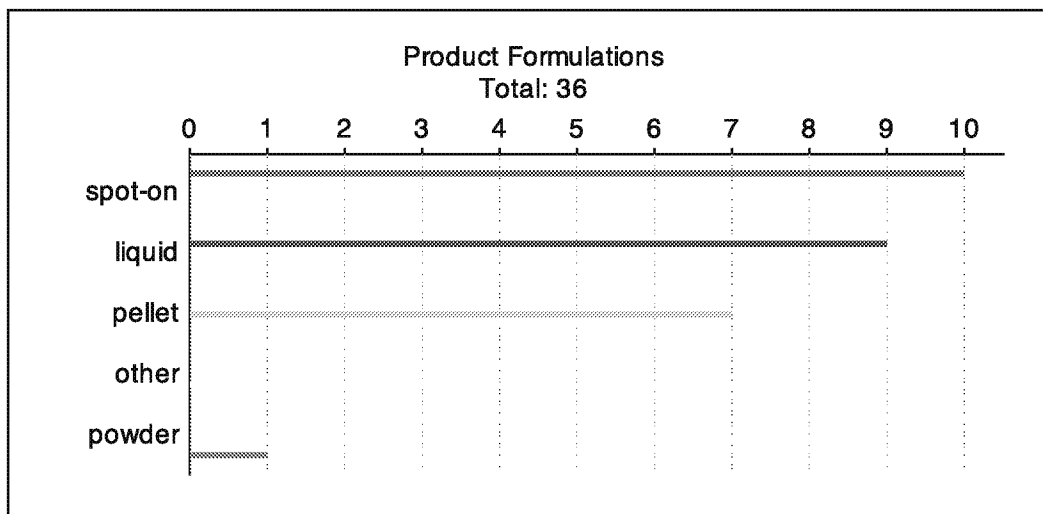
Below is a summary of tables and figures that highlight the requested information.

Species Distribution	
Species:	Number of Animals:
canine	31
feline	5
Total:	36

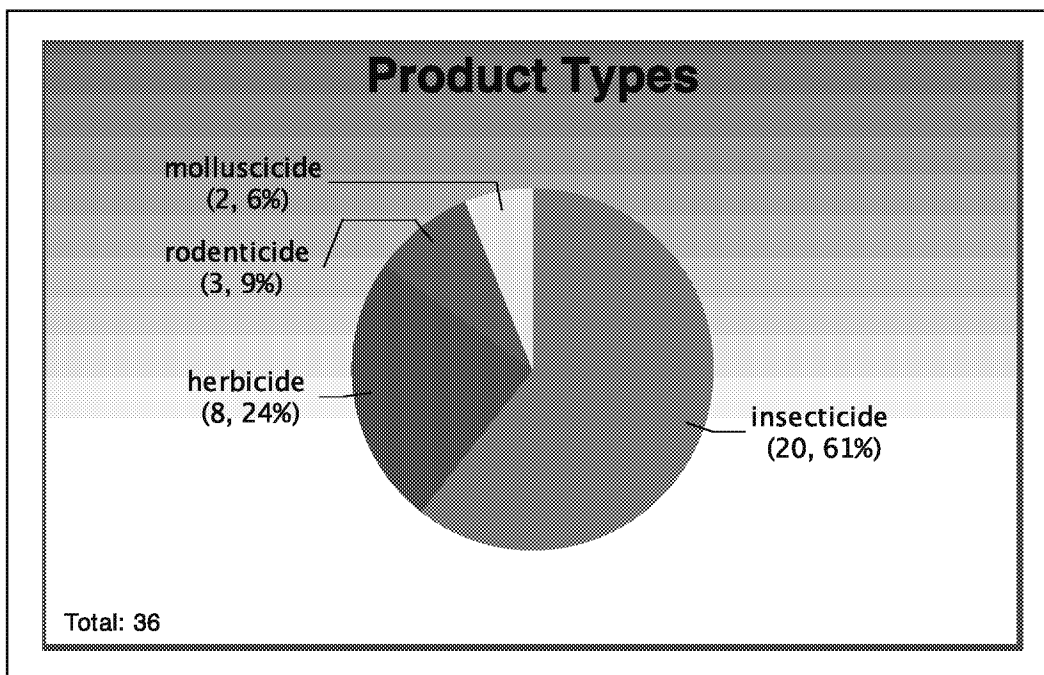
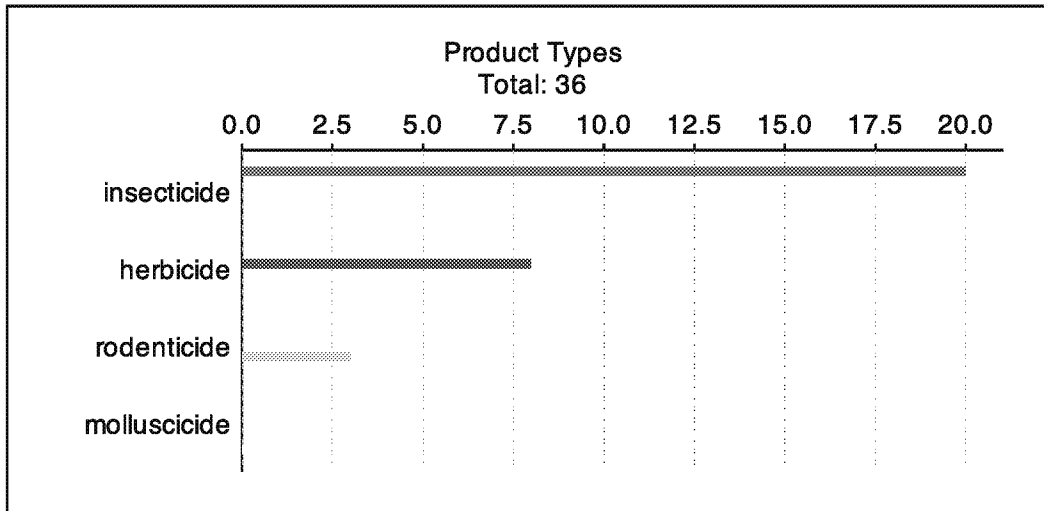


Active Ingredients	
Ingredient:	Quantity:
2,4-d	5
mecoprop	5
dicamba	5
cyphenothrin	3
dithiopyr	3
pyriproxyfen	3
bromethalin	2
bifenthrin	2
dinotefuran	2
prodiamine	1
permethrin	1
selamectin	1
etofenprox	1
ethofenprox	1
carfentrazone-ethyl	1
flumioxazin	1
lambda-cyhalothrin	1
fipronil	1
s-methoprene	1
clove oil	1
2-phenethyl propionate	1
rosemary oil	1
thyme oil	1
noviflumuron	1
iron phosphate	1
spinosad	1
pyrifproxyfen	1
Total:	48

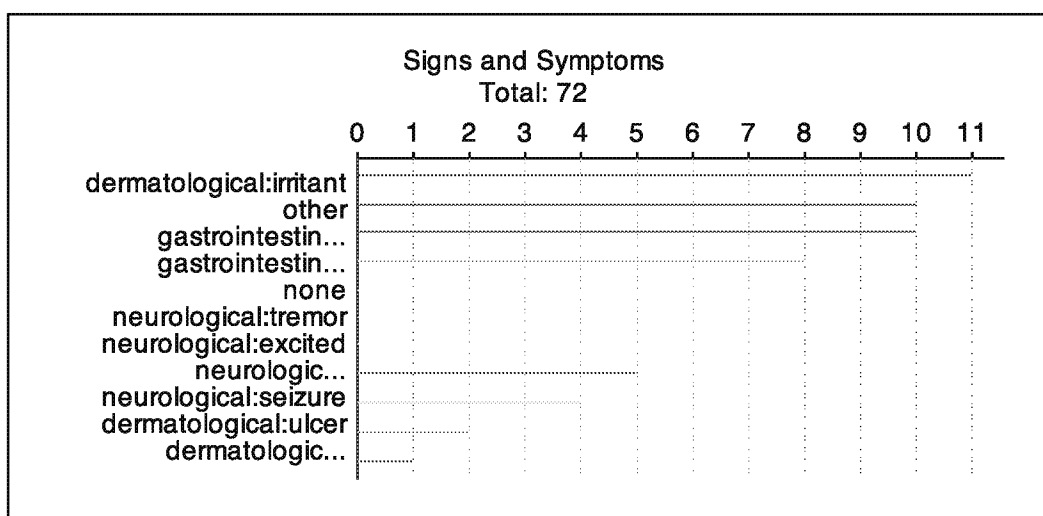
Product Formulations	
Formulation:	Number of products:
spot-on	10
liquid	9
pellet	7
other	4
powder	1
Total:	36



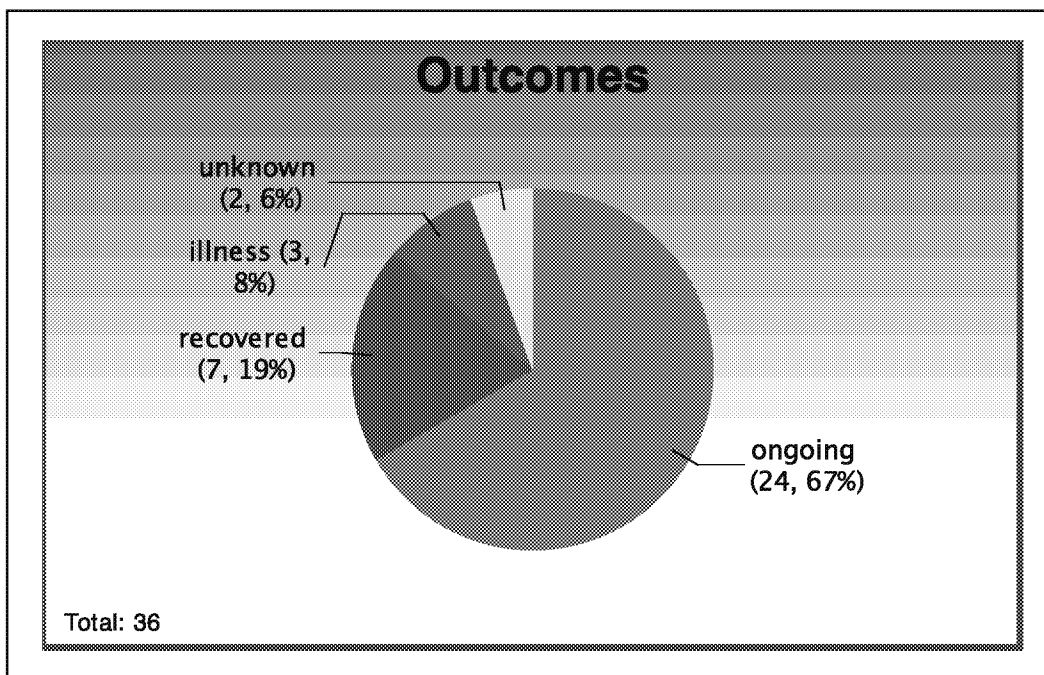
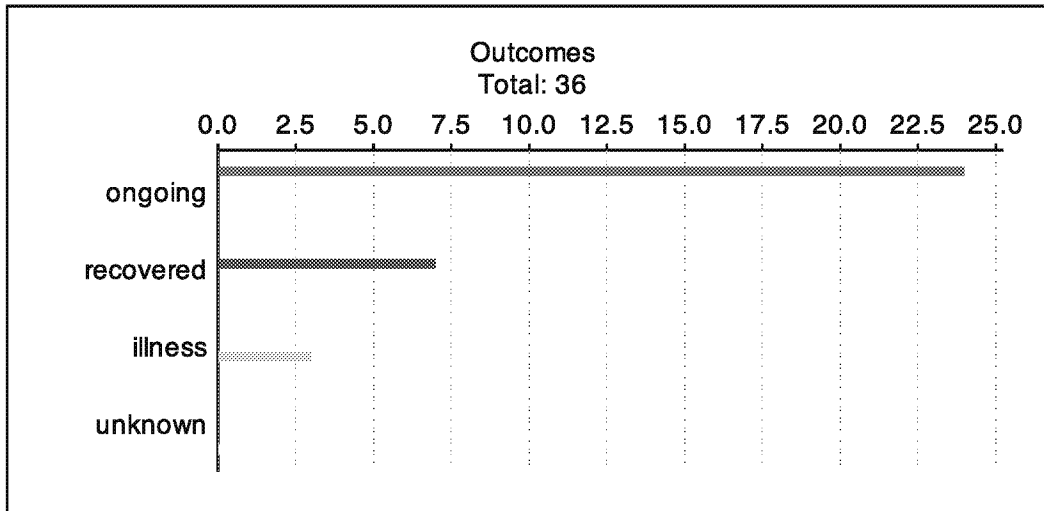
Product Types	
Type:	Number of products:
insecticide	20
herbicide	8
rodenticide	3
molluscicide	2
Total:	36

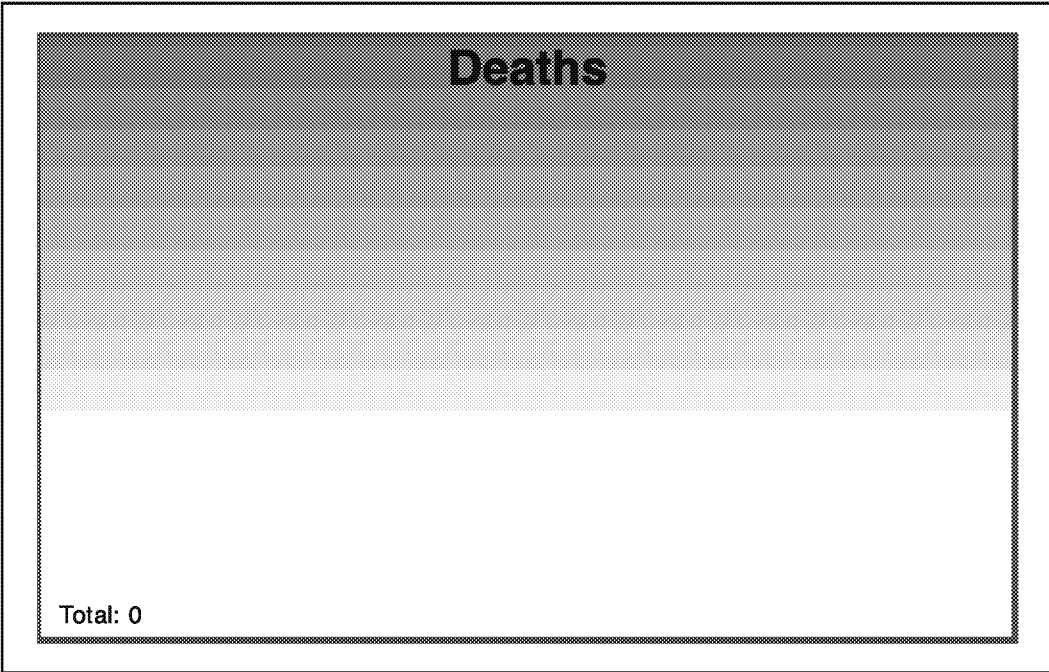
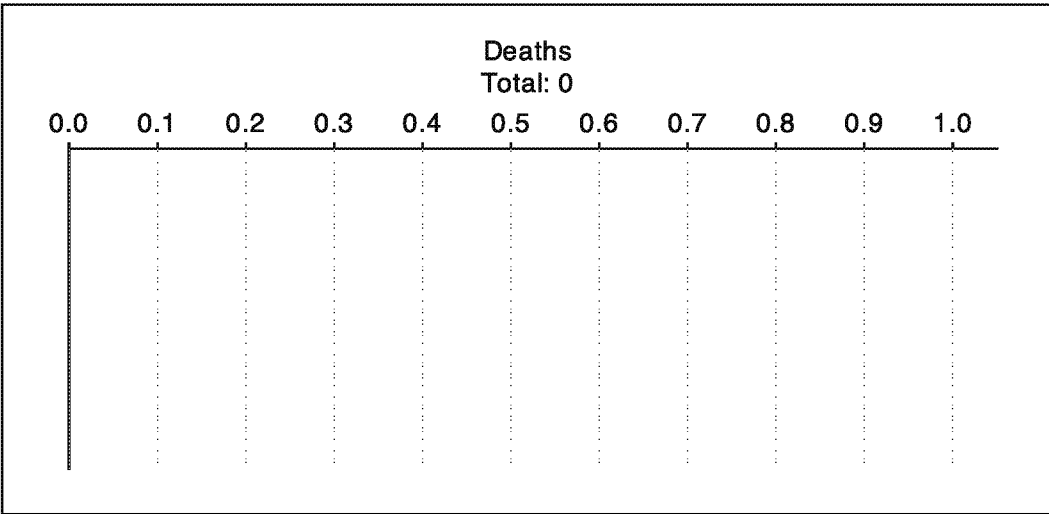


Signs and Symptoms	
Sign/Symptom:	Quantity:
dermatological:irritant	11
other	10
gastrointestinal:diarrhea	10
gastrointestinal:vomiting	8
none	7
neurological:tremor	7
neurological:excited	7
neurological:depression	5
neurological:seizure	4
dermatological:ulcer	2
dermatological:sloughing	1
Total:	72



Outcomes	
Outcome:	Number of animals:
ongoing	24
recovered	7
illness	3
unknown	2
Total:	36





Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC3090924

Submitted: March 09, 2017, 10:17 AM

Reported By: Jennifer Bushnok

Title: Veterinarian

Clinic: Southeast Arkansas Veterinary Services
Pine Bluff, AR

Product Information:

Name: Biflex SFR Termiticide

Reg. Num. 279-3177

Type: insecticide

Formulation: liquid

Ingredient: bifenthrin

AI %: 23.4

Animal Information:

Species: canine

Breed: Norwegian Elkhoun

Sex: female

Age: 9.0 years (3285.0 days)

Weight: 47.5 lbs (21.5 kg)

Exam. Date: March 07, 2017

Outcome: ongoing

Details:

Exposure Information:

Route: other

Date: March 06, 2017

Details: Exact Route of exposure is unknown. Dog was left in a recently (same day) home and began displaying symptoms in less than 12 hours

Signs/Symptoms:

neurological:tremor

neurological:seizure

neurological:depression

neurological:excited

gastrointestinal:diarrhea

Onset: 660.0 minutes (11.0 hours)

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC3151306

Submitted: March 15, 2017, 13:12 PM

Reported By: Unknown

Title: Technician

Clinic: Coastal Veterinary Clinic
Bluffton, SC

Notes: DATA ENTERED BY NPIC - LOG 1290 - BR

Caller, veterinary technician, seeking treatment and health risk information after a dog (female, 3 year old mastiff, 90 pounds) ripped open a bag of EPA registration number 228-613-4 (active ingredient prodiamine) within the past couple of hours. Caller reported the owners are not sure how much the dog may have ingested, but noted that the product was scattered all over the garage floor. Caller reported there were no symptoms. Discussed NPIC services, including no treatment information. Provided contact information for the Animal Poison Control Center for any follow up treatment advice. Discussed risk equation concepts, including toxicity and routes of exposure. Discussed potential health effects of exposure to prodiamine (Small Animal Toxicology), including LD50 and time to typical onset.

Product Information:

Name: unspecified

Reg. Num. 228-613-4

Type: herbicide

Formulation: other

Animal Information:

Species: canine

Breed: Mastiff

Sex: female

Age: 3.0 years (1095.0 days)

Weight: 90.0 lbs (40.8 kg)

Exam. Date: March 09, 2017

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Date: March 09, 2017

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC3290728

Submitted: March 29, 2017, 07:39 AM

Reported By: Cory

Title: Technician

Clinic: Glenwood Falls Animal Hospital
Cypress, TX

Notes: Data entered by NPIC - Log 1421 (CB).

Product Information:

Name: Barricade

Reg. Num. 32802-67-54343

Type: herbicide

Formulation: pellet

Ingredient: prodiamine

AI %: 0.58

Animal Information:

Species: canine

Breed: Border Collie

Sex: neuter:female

Age: 2.0 years (730.0 days)

Weight: 30.0 lbs (13.6 kg)

Exam. Date: March 15, 2017

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Date: March 15, 2017

Details: Pet owner said the dog had two licks full, about 2 teaspoons.

Signs/Symptoms:

none

Details: Label says "do not induce vomiting"

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC3292035

Submitted: March 29, 2017, 20:39 PM

Reported By: John Edwards, DVM

Title: Veterinarian

Clinic: BluePearl Veterinary Specialty and ER
Houston, TX

Notes: I recommend the EPA take this stuff off the market, please!

Product Information:

Name: Tomcat Rat and Mouse Bait

Type: rodenticide

Formulation: pellet

Ingredient: bromethalin

AI %: 0.01

Animal Information:

Species: canine

Breed: Labrador

Sex: male

Age: 8.0 years (2920.0 days)

Weight: 35.0 lbs (15.9 kg)

Exam. Date: March 29, 2017

Outcome: recovered

Details:

Exposure Information:

Route: oral

Date: March 29, 2017

Details: Owner made vomit immediately after, recovered most of product

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC4070832

Submitted: April 07, 2017, 08:58 AM

Reported By: Nicole Gardner
Title: Veterinarian
Clinic: Gentle Vet Animal Hosp
Green Bay, WI

Product Information:

Name: Tom Cat
Type: rodenticide
Formulation: pellet
Ingredient: bromethalin

Animal Information:

Species: canine
Breed: labradoodle
Sex: male
Age: 0.5 years (180.0 days)
Weight: 17.0 lbs (7.7 kg)
Exam. Date: April 06, 2017
Outcome: ongoing
Details: Giving charcoal every 8 hours and hoping the puppy does okay.

Exposure Information:

Route: oral
Date: April 06, 2017
Details: Ate an entire block of bait. Owner's were not aware it was in a house they were renting.

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC4080904

Submitted: April 08, 2017, 09:20 AM

Reported By: Sabrina Walters
Title: Veterinarian
Clinic: Patton Veterinary Hospital
Red Lion, PA

Notes: It is unclear whether Vectra 3d had caused the immune thrombocytopenia but it had been applied monthly for several months as well as the day the symptoms appeared so I felt we should file it as a possible adverse drug reaction.

Product Information:

Name: Vectra 3D
Reg. Num. 83399-6
Type: insecticide
Formulation: spot-on
Ingredient: dinotefuran
AI %: 4.95
Ingredient: pyriproxyfen
AI %: 0.44
Ingredient: permethrin
AI %: 36.08

Animal Information:

Species: canine
Breed: Shih Tsu mix
Sex: neuter:female
Age: 1.0 years (365.0 days)
Weight: 11.0 lbs (5.0 kg)
Exam. Date: January 07, 2017
Outcome: recovered

Details: Patient received a blood transfusion and was also treated with prednisone and doxycycline and has made a full recovery at this time.

Exposure Information:

Route: dermal
Date: January 07, 2017

Signs/Symptoms:

other

Details: Patient was seen at local emergency clinic for lethargy, cough and petechial hemorrhage and was found to have an extremely low platelet count (thrombocytopenia at 7K/ul) and HCT 27.5%. Product had been applied monthly prior to this presentation

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC4251522

Submitted: April 25, 2017, 15:27 PM

Reported By: Irene Springer
Title: Veterinarian
Clinic: Fairfax Veterinary Clinic
Fairfax, CA

Product Information:

Name: Sergeant's Cyphenothrin Squeeze-On for Dogs
Reg. Num. 2517-85
Type: insecticide
Formulation: spot-on
Ingredient: cyphenothrin
AI %: 40.0

Animal Information:

Species: canine
Breed: Chihuahua
Sex: neuter: male
Age: 0.7 years (270.0 days)
Weight: 9.0 lbs (4.1 kg)
Exam. Date: February 24, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: dermal
Route: oral
Date: February 24, 2017
Details: Pet owners had applied product to dog in a line from the back of the neck to the tail.

Signs/Symptoms:

neurological: tremor
neurological: excited
dermatological: irritant
gastrointestinal: diarrhea
gastrointestinal: vomiting
other
Onset: 15.0 minutes (0.2 hours)
Details: Dog exhibited agitation 15 minutes after the product was put onto the dog and the pet owners noticed the dog biting at his back. Dog exhibiting symptoms of pruritis, diarrhea, ataxia, tremors, lethargy.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC4271118

Submitted: April 27, 2017, 11:59 AM

Reported By: Dr. Spranglert
Title: Veterinarian
Clinic: Fairfax Veterinary Clinic
Fairfax, CA

Product Information:

Name: Sergeant's Cyphenothrin Squeeze-On for Dogs
Reg. Num. 2517-85
Type: insecticide
Formulation: spot-on
Ingredient: cyphenothrin
AI %: 40.0

Animal Information:

Species: canine
Breed: Chihuahua
Sex: neuter:male
Age: 0.7 years (270.0 days)
Weight: 9.0 lbs (4.1 kg)
Exam. Date: April 27, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: dermal
Route: oral
Date: April 27, 2017
Details: Product applied between the shoulder blades on the back to the tail.

Signs/Symptoms:

neurological:tremor
dermatological:irritant
gastrointestinal:diarrhea
gastrointestinal:vomiting
other
Onset: 300.0 minutes (5.0 hours)
Details: Ataxia, Erythema, Pruritis, Agitation

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC5161246

Submitted: May 16, 2017, 12:56 PM

Reported By: Lisa Mekka

Title: Veterinarian

Clinic: House Calls for Cats
Oakdale, MN

Notes: Currently being treated w/ opioid pain relief, anti-inflammatory drugs, and topical salves

Product Information:

Name: Revolution

Type: insecticide

Formulation: spot-on

Ingredient: selamectin

Animal Information:

Species: feline

Breed: DSH

Sex: neuter:female

Age: 5.0 years (1825.0 days)

Weight: 14.6 lbs (6.6 kg)

Exam. Date: May 16, 2017

Outcome: ongoing

Details:

Exposure Information:

Route: dermal

Date: May 11, 2017

Signs/Symptoms:

dermatological:irritant

dermatological:ulcer

dermatological:sloughing

other

Onset: 2880.0 minutes (48.0 hours)

Details: 6" x 5" area of spreading alopecia w/ pain, skin thickening, central erythema, and weeping serosanguinous fluid

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC5230939

Submitted: May 23, 2017, 09:45 AM

Reported By: Tracie Widme
Title: Technician
Clinic: Cowlitz Animal Clinic
Longview, WA

Product Information:

Name: Sergeant's Evolve 21
Reg. Num. 2517-129
Type: insecticide
Formulation: spot-on
Ingredient: cyphenothrin
AI %: 20.0
Ingredient: pyriproxyfen
AI %: 2.0

Animal Information:

Species: canine
Breed: Lhasa Apso
Sex: neuter:male
Age: 10.0 years (3650.0 days)
Weight: 20.4 lbs (9.3 kg)
Exam. Date: May 23, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: dermal
Date: May 22, 2017

Signs/Symptoms:

neurological:excited
dermatological:irritant

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC5231405

Submitted: May 23, 2017, 14:13 PM

Reported By: John Stevens
Title: Veterinarian
Clinic: Animal Hospital
West Memphis, AR

Product Information:

Name: Expert Gardener Weed & Feed
Reg. Num. 2217-884-59144
Type: herbicide
Formulation: other
Ingredient: 2,4-d
AI %: 1.108
Ingredient: dicamba
AI %: 0.071
Ingredient: mecoprop
AI %: 0.167

Animal Information:

Species: canine
Breed: Terrier
Sex: male
Weight: 18.0 lbs (8.2 kg)
Exam. Date: May 23, 2017
Outcome: ongoing
Details: Dog had been bathed when it arrived at the veterinarian and symptoms seem to be improving.

Exposure Information:

Route: dermal
Route: oral
Date: May 23, 2017
Details: An owner was put the product on the backyard lawn in the morning and the dog was out in the yard afterwards. The dog may have licked his feet where he had been exposed to the pesticide. The dog began showing symptoms 1 hour before being taken to the vet.

Signs/Symptoms:

other
Onset: 60.0 minutes (1.0 hours)
Details: The dog was showing signs of twitching and hyperesthesia.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC5301007

Submitted: May 30, 2017, 10:10 AM

Reported By: Aya Alt

Title: Veterinarian

Clinic: Broadway Animal Hospital
Boulder, CO

Product Information:

Name: SentryPro

Ingredient: etofenprox

Animal Information:

Species: canine

Breed: Pomeranian

Sex: neuter:male

Age: 8.0 years (2920.0 days)

Weight: 6.0 lbs (2.7 kg)

Exam. Date: May 30, 2017

Outcome: ongoing

Details:

Exposure Information:

Route: dermal

Date: May 25, 2017

Details: Topical applied between shoulderblades

Signs/Symptoms:

dermatological:irritant

dermatological:ulcer

Onset: 2880.0 minutes (48.0 hours)

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC6220806

Submitted: June 22, 2017, 10:16 AM

Reported By: Laurie Langdon
Title: Veterinarian
Clinic: Milton Veterinary Hospital
Middlegrove, NY

Notes: Veterinarian called NPIC because she noticed pellets in the canines' stools and was seeking formulation information about the pesticide products to see if the pellets could be from the pesticides. Veterinarian also reported a fertilizer was applied to the dog owners' lawn (17-0-5 UMB NP).

Product Information:

Name: Dimension 2EW, NUP 06237 Herbicide
Reg. Num. 62719-542, 228-551
Type: herbicide
Formulation: liquid
Ingredient: dithiopyr
AI %: 24.0
Ingredient: dicamba
AI %: 3.2
Ingredient: mecoprop
AI %: 7.7
Ingredient: 2,4-d
AI %: 47.8

Animal Information:

Species: canine
Breed: Yorkie
Sex: neuter:male
Age: 8.0 years (2920.0 days)
Weight: 12.5 lbs (5.7 kg)
Exam. Date: June 21, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: oral
Date: June 16, 2017
Details: Dog was outside during the pesticide application by a pest control company. Veterinarian suspected the dog may have had an oral exposure sometime in the yard after or during the treatment that occurred on 6/16/2017.

Signs/Symptoms:

gastrointestinal:diarrhea
Onset: 2880.0 minutes (48.0 hours)
Details: Dog started showing symptoms two days after the pesticide application. Dog had hemorrhagic diarrhea when arriving at the veterinary hospital.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Animal Information:

Species: canine
Breed: Goldendoodle
Sex: male
Age: 0.5 years (180.0 days)
Weight: 30.0 lbs (13.6 kg)
Exam. Date: June 21, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: oral
Date: June 16, 2017
Details: Dog was outside during the pesticide application by a pest control company. Veterinarian suspected the dog may have had an oral exposure sometime after or during the treatment that occurred on 6/16/2017.

Signs/Symptoms:

other
Onset: 5760.0 minutes (96.0 hours)
Details: Anorexia; Dog started showing symptoms four days after the pesticide application.
Dog was not eating when arriving at the veterinary hospital.

Animal Information:

Species: canine
Breed: Pit bull
Sex: neuter:male
Age: 12.0 years (4380.0 days)
Weight: 62.0 lbs (28.1 kg)
Exam. Date: June 21, 2017
Outcome: ongoing
Details:

Exposure Information:

Route: oral
Date: June 16, 2017
Details: Dog was outside during the pesticide application by a pest control company. Veterinarian suspected the dog may have had an oral exposure sometime after or during the treatment that occurred on 6/16/2017.

Signs/Symptoms:

gastrointestinal:diarrhea
gastrointestinal:vomiting
Onset: 5760.0 minutes (96.0 hours)
Details: Anorexia; Dog started showing symptoms four days after the pesticide application.
Dog was ill when arriving at the veterinary hospital.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC7051531

Submitted: July 05, 2017, 16:33 PM

Reported By: Vet Tech

Title: Technician

Clinic: Panther Pet Animal Hospital
Petal, MS

Notes: DATA ENTERED BY NPIC - LOG 4454 â (BR)

Caller, veterinary technician, seeking to report an animal incident after EPA registration number 89609-2 (active ingredient deltamethrin) had been applied by the owner. Caller reported the dog (4 years, 13.8 pounds, male neutered, Shih tzu) was treated on 05/15/2017 and wouldnât sleep that day (would jump up abruptly every time it wold lay down and was found to have an ear infection. Caller reported the following day, the dog still wouldnât sleep, would jerk its body around, but the blood work they ordered checked out okay. Caller reported the owner removed the collar that day and the vet instructed her to wash down the dog before using another product for flea control. Caller reported that 10 days later (05/26/17), the dog's health had returned to normal and the dog was again normal at today's visit. Caller reported the owner had already contacted the manufacturer to report the issues. Discussed NPIC services, including no regulatory authority. Discussed our role in collecting incident reports and making them available for review by EPA.

Product Information:

Name: unspecified

Reg. Num. 89609-2

Type: insecticide

Formulation: other

Animal Information:

Species: canine

Breed: Shih Tzu

Sex: neuter:male

Age: 4.0 years (1460.0 days)

Weight: 13.8 lbs (6.3 kg)

Exam. Date: June 05, 2017

Outcome: recovered

Details:

Exposure Information:

Route: dermal

Date: May 15, 2017

Signs/Symptoms:

neurological:excited

Onset: 720.0 minutes (12.0 hours)

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC7181355

Submitted: July 18, 2017, 14:01 PM

Reported By: Stephanie Wolf
Title: Veterinarian
Clinic: Creekside Veterinary Hospital
Bozeman, MT

Product Information:

Name: Sentry Pro XFT
Type: insecticide
Ingredient: ethofenprox
Ingredient: pyriproxyfen

Animal Information:

Species: canine
Breed: Malamute
Age: 7.0 years (2555.0 days)
Weight: 73.0 lbs (33.1 kg)
Outcome: illness
Details:

Exposure Information:

Route: dermal
Date: July 13, 2017
Details: The dog was treated with the Sentry product.

Signs/Symptoms:

dermatological:irritant
gastrointestinal:diarrhea
gastrointestinal:vomiting
other

Details: The dog was very itchy and irritated on her underside but not on the spot where the dog had been treated. The dog was treated with the product 48 hours before coming to the vet. The dog was treated with immunosuppressive therapy but the dog has done poorly and she has been in every day since for vomiting and diarrhea.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC8150950

Submitted: August 15, 2017, 09:50 AM

Reported By: Janet Schultz

Title: Veterinarian

Clinic: Fort Washington Veterinary Hospital
Fort Washington, PA

Product Information:

Name: unspecified

Reg. Num. 70585-13

Type: insecticide

Formulation: spot-on

Animal Information:

Species: canine

Breed: Havanese

Age: 11.0 years (4015.0 days)

Weight: 18.0 lbs (8.2 kg)

Outcome: recovered

Details: owner told me about it well after the fact, she discontinued the product and has been normal since

Exposure Information:

Route: dermal

Signs/Symptoms:

neurological:tremor

Details: leg twitching that lasted two weeks, occurred on two separate occasions

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC8151238

Submitted: August 15, 2017, 12:38 PM

Reported By: Marianne Fracica
Title: Veterinarian
Clinic: Ephrata Animal Hospital
Ephrata, PA

Product Information:

Name: unspecified
Reg. Num. 91300-4
Type: insecticide
Formulation: other

Animal Information:

Species: canine
Breed: Pug
Age: 1.6 years (600.0 days)
Weight: 23.0 lbs (10.4 kg)
Outcome: illness
Details: pending

Exposure Information:

Route: dermal

Signs/Symptoms:

neurological:depression
dermatological:irritant
Details: Owner reports lethargy, inappetence, pruritis not drinking water,PE, painful,
hyperthermia skin excoriation and infection

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC8151413

Submitted: August 15, 2017, 14:13 PM

Reported By: Sarah B

Title: Technician

Clinic: Green Valley Animal Hospital
Bluefield, WV

Notes: Case entered by NPIC. AS Log #7475

Product Information:

Name: unspecified

Reg. Num. 829-196

Type: insecticide

Formulation: powder

Animal Information:

Species: feline

Age: 0.8 years (300.0 days)

Weight: 10.0 lbs (4.5 kg)

Outcome: illness

Details:

Exposure Information:

Route: other

Details: The cat owner applied the pesticide in the yard yesterday and the cat spends time both inside and outside. The owner was not sure if or how the cat may have been exposed to the product.

Signs/Symptoms:

neurological:depression

other

Details: The cat is lethargic, non-responsive and nonambulatory.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC9010922

Submitted: September 01, 2017, 09:22 AM

Reported By: Dr. Kate French

Title: Veterinarian

Clinic: North Branch Veterinary Hospital
North Branch, MN

Notes: Data entered by NPIC - Log 5736 (CB).

Product Information:

Name: Fertilome

Type: herbicide

Formulation: liquid

Ingredient: 2,4-d

Ingredient: mecoprop

Ingredient: dicamba

Ingredient: carfentrazone-ethyl

Animal Information:

Species: canine

Breed: American Bulldog

Age: 9.0 years (3285.0 days)

Weight: 70.0 lbs (31.8 kg)

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Details: Pet found the product container and may have drunk from it. The container was left open and the pet owners noticed the level was down.

Signs/Symptoms:

neurological:seizure

gastrointestinal:diarrhea

gastrointestinal:vomiting

Details: Seizures were caused by dehydration. Organ function is fine.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC9071502

Submitted: September 07, 2017, 15:02 PM

Reported By: Laverne

Title: Other: Vet clinic receptionist

Clinic: Tuscahill Animal Hospital
Winter Springs, FL

Notes: Data entered by NPIC - Log 8196 (SB).

Product Information:

Name: unknown

Type: herbicide

Ingredient: flumioxazin

AI %: 51.0

Animal Information:

Species: canine

Breed: poodle

Age: 10.0 years (3650.0 days)

Weight: 15.0 lbs (6.8 kg)

Outcome: unknown

Details:

Exposure Information:

Route: other

Details: Possible oral exposure by drinking flumioxazin-treated lake water; unable to confirm whether dog actually drank water

Signs/Symptoms:

other

Details: Unknown if dog having symptoms or not

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC9120959

Submitted: September 12, 2017, 09:59 AM

Reported By: Ruby

Title: Technician

Clinic: Dutton Rd. Vet Clinic
Philadelphia, PA

Notes: DATA ENTERED BY NPIC - LOG 7970 & BR

Caller, veterinary technician, reported that a client's dog (female, rottweiler/labrador, 18 weeks) ate/drank an unknown amount of OFF Backyard Spray (active ingredient lambda-cyhalothrin) liquid that had spilled on the garage floor. Caller reported the dog was found licking the product about 20 minutes ago and has been vomiting and convulsing. Caller seeking treatment information. Discussed NPIC services, including no veterinary training, but that specialists can read directly from veterinary texts. Discussed treatment and health effect information from Small Animal Toxicology: pyrethroids.

Product Information:

Name: OFF Backyard Spray

Type: insecticide

Formulation: liquid

Ingredient: lambda-cyhalothrin

Animal Information:

Species: canine

Breed: Rottweiler/Labrador

Age: 0.4 years (135.0 days)

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Signs/Symptoms:

neurological:seizure

gastrointestinal:diarrhea

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10041432

Submitted: October 04, 2017, 14:32 PM

Reported By: Michael Ouverson

Title: Veterinarian

Clinic: Crossroads Veterinary Clinic
Greenville, TX

Notes: DATA ENTERED BY NPIC & LOG 9005 & SB

Product Information:

Name: unspecified

Reg. Num. 67702-3-239

Type: molluscicide

Formulation: pellet

Animal Information:

Species: canine

Breed: mixed

Age: 0.6 years (210.0 days)

Weight: 34.0 lbs (15.4 kg)

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Details: Veterinarian reported the dog's owner brought the dog in for care about 30 minutes prior to calling NPIC. Vet reported the dog had no symptoms at that time. Vet said the owner told him that he/she had let the dog outside 1 hour prior and that the dog had been outside for 30 minutes. Vet said the owner had found that a container of EPA registration number 67702-3-239 (active ingredient iron phosphate) had been left out in a flower bed, the container was torn open, and that pellets were spread around. Veterinarian said that vet staff had induced the dog to vomit, which brought up a large number of cylindrical pellets. Vet said he had not given the dog activated charcoal.

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10111620

Submitted: October 11, 2017, 16:20 PM

Reported By: Grace Song
Title: Veterinarian
Clinic: Banfield Pet Hospital
Northridge, CA

Product Information:

Name: Frontline
Type: insecticide
Formulation: spot-on
Ingredient: fipronil
Ingredient: s-methoprene

Animal Information:

Species: canine
Breed: pomeranian
Age: 4.0 years (1460.0 days)
Weight: 6.7 lbs (3.0 kg)
Outcome: recovered
Details: Blood work within normal limits.

Exposure Information:

Route: dermal
Details: Pet showed signs within minutes after exposure and pet was immediately bathed to rinse product off.

Signs/Symptoms:

neurological:tremor

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10170708

Submitted: October 17, 2017, 07:08 AM

Reported By: Zachary Bault

Title: Veterinarian

Clinic: Noah's Stop 11 Animal Hospital
Indianapolis, IN

Product Information:

Name: unspecified

Reg. Num. 67505-3-88966

Animal Information:

Species: canine

Breed: Pomeranian Mix

Age: 3.0 years (1095.0 days)

Weight: 15.0 lbs (6.8 kg)

Outcome: ongoing

Details:

Exposure Information:

Route: dermal

Signs/Symptoms:

dermatological:irritant

Details: Owner noticed a day after exposure area started turning red/getting itchy. Became a superficial wound possible just from self-trauma from itching but cannot rule out reaction from topical.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10201406

Submitted: October 20, 2017, 14:06 PM

Reported By: Joseph M Parisi, DVM
Title: Veterinarian
Clinic: St Francis Animal Hospital
Cheektowaga, NY

Product Information:

Name: EcoSmart® | Home Pest Control
Type: insecticide
Formulation: liquid
Ingredient: clove oil
Ingredient: 2-phenethyl propionate
Ingredient: rosemary oil
Ingredient: thyme oil

Animal Information:

Species: canine
Breed: poodle
Age: 8.0 years (2920.0 days)
Weight: 10.3 lbs (4.7 kg)
Outcome: ongoing
Details: outpatient supportive care was provided (the owner declined referral for critical care) and a sample was obtained for serum chemistry analysis (which is pending) The owner took the dog home and was to bathe him to remove the pesticide.

Exposure Information:

Route: dermal
Details: The owner sprayed her premises and also applied the spray to the dog

Signs/Symptoms:

other
Details: loss of appetite

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10240544

Submitted: October 24, 2017, 05:44 AM

Reported By: Cat Hefley
Title: Veterinarian
Clinic: Diamond Animal Hospital
Anchorage, AK

Product Information:

Name: unspecified
Reg. Num. 2517-130
Type: insecticide
Formulation: liquid

Animal Information:

Species: canine
Breed: Weimeraner
Age: 1.3 years (474.5 days)
Weight: 66.0 lbs (29.9 kg)
Outcome: ongoing
Details: Required sedatives, in hospital monitoring after thorough bath.

Exposure Information:

Route: dermal
Details: The correct dose was applied in the correct manor according to label instructions.

Signs/Symptoms:

neurological:tremor
neurological:excited
dermatological:irritant
Details: Immediately after applying the product (correct dose/amount) the patient became agitated/biting/scratching at the site of application. Then began having muscle tremors/ataxia.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC10251559

Submitted: October 25, 2017, 15:59 PM

Reported By: Beth

Title: Technician

Clinic: Gardner Animal Care Center
Gardner, MA

Notes: DATA ENTERED BY NPIC - LOG 9487 - SB

Product Information:

Name: unspecified

Reg. Num. 12455-79-3240

Type: rodenticide

Formulation: pellet

Animal Information:

Species: canine

Breed: Labrador mix

Age: 12.0 years (4380.0 days)

Weight: 49.0 lbs (22.2 kg)

Outcome: ongoing

Details:

Exposure Information:

Route: oral

Details: Owner brought dog to clinic on 10/25/17 after dog ingested some of the product earlier in the day. Vet tech reported the dog had eaten one whole block of the product and the owner made her vomit. Owner told vet tech it was possible that the dog had also eaten an unknown quantity of the product one day prior and that vomiting was not induced then.

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC11021335

Submitted: November 02, 2017, 13:35 PM

Reported By: Lori Wendland

Title: Veterinarian

Clinic: Town and Country Animal Hospital
Miami, FL

Notes: Data entered by NPIC - Log 9699 - AL

Product Information:

Name: Masterline

Type: insecticide

Formulation: liquid

Ingredient: bifenthrin

AI %: 7.9

Animal Information:

Species: canine

Breed: Havanese

Age: 1.0 years (365.0 days)

Weight: 11.0 lbs (5.0 kg)

Outcome: ongoing

Details: Dogs are currently in the veterinary office being observed.

Exposure Information:

Route: other

Details: Dogs were left at home in an ex pen, when owner returned home after a few hours away she found the dogs were out of the pen and there was a card on the table stating that the pest control company had come by and treated. It is unknown if the dogs were out during the application, or how exactly or if they contacted the product. Owner contacted the building management to find product information.

Signs/Symptoms:

gastrointestinal:diarrhea

gastrointestinal:vomiting

Details: Owner returned home to find the dogs were out of their pen, and one of the dogs vomited and had diarrhea shortly after her return. The second dog (23 lb, 1 year old, neutered male Havanese) has been asymptomatic.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC11122225

Submitted: November 12, 2017, 22:25 PM

Reported By: Katie Hancock

Title: Veterinarian

Clinic: Feather and Fur Animal Hospital
Kailua, HI

Product Information:

Name: unspecified

Reg. Num. 2596-174

Type: insecticide

Formulation: spot-on

Animal Information:

Species: feline

Breed: DSH

Age: 0.4 years (150.0 days)

Weight: 5.5 lbs (2.5 kg)

Outcome: ongoing

Details:

Exposure Information:

Route: dermal

Signs/Symptoms:

neurological:excited

dermatological:irritant

Details: Possible mild tremors

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC11151146

Submitted: November 15, 2017, 11:46 AM

Reported By: Dr. Lori Stose

Title: Veterinarian

Clinic: Memorial Drive Veterinary Clinic
Griffin, GA

Notes: Data entered by NPIC - Log 9961 (AL)

Product Information:

Name: Termite Bait

Type: insecticide

Formulation: pellet

Ingredient: noviflumuron

Animal Information:

Species: canine

Breed: Miniature Schnauzer

Age: 4.0 years (1460.0 days)

Weight: 15.0 lbs (6.8 kg)

Outcome: recovered

Details: The dog has not had any more gastrointestinal issues since being treated symptomatically at the emerg. vet office.

Exposure Information:

Route: oral

Details: The pest control company removed some termite bait stations, and spilled some of the bait. The dog had access to the area where the bait was spilled, but nobody saw the dog ingest the bait.

Signs/Symptoms:

gastrointestinal:diarrhea

gastrointestinal:vomiting

Details: The dog had diarrhea and vomiting last night, was taken to the emergency vet clinic, his symptoms were treated, and then was brought in today for a follow up.

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC11271211

Submitted: November 27, 2017, 12:11 PM

Reported By: Melanie Thevis

Title: Veterinarian

Clinic: Parmer Lane Pet Hospital
Cedar Park, TX

Notes: DATA ENTERED BY NPIC - LOG 10060 z BR

Caller, veterinarian, seeking information about typical health effects following ingestion of an unknown Sluggo pellet product (possible active ingredient iron phosphate and/or active ingredient spinosad per NPIRS state database search). Caller reported the animal is a 10 year old dog (23 pounds, male, Swedish Vallhund) and the client is on the phone with her receptionist currently. Caller reported the client noted that about a quarter of a 2 pound bag of pellets was missing and believes the dog ate them within the past hour. Caller reported the client was distressed and was unable to provide more information about the product or whether the dog was showing any health effects currently. Discussed possible matching products in her state's pesticide database and discussed uncertainty surrounding the information as a result of the incomplete product information available from the client. Discussed potential health effects of exposure to iron phosphate (Small Animal Toxicology) and spinosad (NPIC Fact Sheet), including typical time to onset, duration, LD50s, etc. Discussed NPIC services, including no veterinary training and directly quoted treatment information listed in Small Animal Toxicology for veterinary interpretation in the dog's case. Provided contact information for Lawn & Garden and Certis for possible manufacturer contact regarding toxicity of other ingredients/product as a whole.

Product Information:

Name: Sluggo

Type: molluscicide

Formulation: pellet

Ingredient: iron phosphate

Ingredient: spinosad

Animal Information:

Species: canine

Breed: Swedish Vallhund

Age: 10.0 years (3650.0 days)

Weight: 23.0 lbs (10.4 kg)

Outcome: unknown

Details:

Exposure Information:

Route: oral

Signs/Symptoms:

none

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC11271400

Submitted: November 27, 2017, 14:00 PM

Reported By: melanie emory

Title: Veterinarian

Clinic: hight veterinary hospital
charlotte, NC

Product Information:

Name: vectra for cats

Type: insecticide

Formulation: spot-on

Ingredient: dinotefuran

AI %: 22.0

Ingredient: pyrifproxifen

AI %: 3.0

Animal Information:

Species: feline

Breed: dsh

Age: 2.0 years (730.0 days)

Weight: 10.2 lbs (4.6 kg)

Outcome: ongoing

Details: bathed with dawn dish soap, gave subq fluids and started on onnsior

Exposure Information:

Route: dermal

Signs/Symptoms:

neurological:depression

dermatological:irritant

gastrointestinal:vomiting

Details: lethargic, vomited, skin is erythemic where applied inbetween shoulder blades.
temp 103.1

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC12201021

Submitted: December 22, 2017, 12:28 PM

Reported By: Enrique Duprey, DVM

Title: Veterinarian

Clinic: Alafaya Trail Animal Hospital
Oviedo, FL

Product Information:

Name: unspecified

Reg. Num. 69332-4-2517

Type: insecticide

Formulation: spot-on

Animal Information:

Species: feline

Breed: DSH

Age: 2.0 years (730.0 days)

Weight: 14.0 lbs (6.4 kg)

Outcome: ongoing

Details: Pet is currently in hospital; supportive care / fluids

Exposure Information:

Route: dermal

Details: Probaly ingested since owner applied down the entire spine.

Signs/Symptoms:

neurological:tremor

neurological:seizure

neurological:depression

Incident Details

GY2017 Veterinary Incident Report
2/15/2017 - 2/14/2018

Incident: NPIC2091606

Submitted: February 09, 2018, 16:06 PM

Reported By: Janet Peralta

Title: Veterinarian

Clinic: Cummings Veterinary Medical Center
North Grafton, MA

Product Information:

Name: Seresto collar

Reg. Num. 11556-155

Animal Information:

Species: canine

Outcome: recovered

Details: Owner tried applying the collar twice with same results. Signs resolve after removing the collar.

Exposure Information:

Route: dermal

Signs/Symptoms:

neurological:excited

Details: Restless, will just walk on circles, anxious. It resolved after collar was removed



2018 REFERRAL TO EPA

LOG: 2448

Date: 4/25/18

City, State: Lewisburg, WV

Narrative: Voice mail message. Returned call at 09:01 on 04/25/2018. Caller (veterinarian) wishing to report a possible adverse reaction to a Seresto collar (EPA registration number 11556-155 (active ingredients imidacloprid, flumethrin)). Caller reported that a client bought two Seresto collars from their office on 4/6/2018, and applied them to his dogs after returning home. Caller reported that within 24 hours, one of the dogs (9 year old, 63 lb neutered male Australian Shepherd mix) was brought to the emergency clinic. Caller reported that the dog cried out during the night, vomited several times, had uncontrolled urination, was ataxic, and couldn't walk. Caller reported they tested the dog for antifreeze (which was negative), did an examination, found that he had very high white blood cell count, and gave him sub-cutaneous fluids and a couple injections of medication. Caller reported that the dog recovered within 24 hours and was sent home.

Caller reported that the owner did not think that the collar was related to the dog's condition, and reapplied the collar on 4/22/2018. Within 48 hours the dog had a similar episode, with symptoms including crying out, vomiting, and possible seizures. Caller reported when he was brought to the clinic early afternoon on 4/24/2018 he was found to have "blunted mentation, knuckling, and wobbly on his rear legs". Caller reported he was tested and found to have an even higher white blood cell count, was given subcutaneous fluids and injections again, a catheter, and they tried to refer him to an emergency clinic. Caller reported that the dog passed away within two hours of presentation at the clinic. Caller reported there were no dermal symptoms observed, and they have already reported both reactions to the manufacturer (Bayer). Discussed NPIC services, including reporting process for incidents. Entered information into NPIC VIRP case # NPIC4251120. Offered to email additional information about NPIC's veterinary reporting portal, and caller provided email address. Sent requested email. Email response:

Thank you for contacting the National Pesticide Information Center (NPIC) today. As we discussed over the phone, I'm providing additional resources regarding our online Veterinary Pesticide Incident Reporting Portal. The portal was created so that veterinarians and their staff could report adverse reactions to pesticides observed in animals. This includes reactions to flea & tick products, along with any other pesticide. I have entered today's incident on your behalf; in the future you may either enter incidents directly or call and report them verbally.

Introduction to the Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/factsheets/VIRP.html>

Veterinary Pesticide Incident Reporting Portal
<http://npic.orst.edu/vet/>

We hope your office will consider reporting future adverse reactions to pesticides you observe



2018 REFERRAL TO EPA

LOG: 2448

in your patients. If you have any additional questions, or you need help with any of the resources provided, please contact us at 800-858-7378, Monday - Friday from 8:00 am to 12:00 pm PT.

Caller phoned back in to provide EPA Registration Number, see log 2470. Resources used: "Registration Decision for the New Active Ingredient Flumethrin for Use in Cat and Dog Collars", & NPIC Fact Sheet.

Message

From: Miller, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BB7A864DD08445B0A59A63FA36836677-ROBERT MILLER]
Sent: 9/19/2019 2:03:58 PM
To: Borges-Silva, Quentin [Borges-Silva.Quentin@epa.gov]
Subject: RE: human incidents involving Seresto collars

Hi Quentin,

Give me a few minutes to go through the incident data database to see if we have any such incidents.

Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

From: Borges-Silva, Quentin <Borges-Silva.Quentin@epa.gov>
Sent: Thursday, September 19, 2019 9:11 AM
To: Miller, Robert <Miller.Robert@epa.gov>
Subject: human incidents involving Seresto collars

Hi Bob.

I got a human incident report in the pesticidequestions@epa.gov inbox that I'll be forwarding to you shortly. But in formulating the response, I'm wondering if you've received reports of reactions in people, including anaphylactic shock, respiratory effects or nerve damage, associated with Seresto collars? Flumethrin and imidacloprid are the AIs.

Thanks,

Quentin Borges-Silva
[EPA's Office of Pesticide Programs](#)
"Protecting Human Health & the Environment"

Message

From: Miller, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BB7A864DD08445B0A59A63FA36836677-ROBERT MILLER]
Sent: 6/26/2019 1:15:32 PM
To: Mastrotta, Nicholas [Mastrotta.Nicholas@epa.gov]; McFarley, Heather [mcfarley.heather@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Fletcher, Rachel [fletcher.rachel@epa.gov]; Biscoe, Melanie [Biscoe.Melanie@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]; Jones, Ricardo [Jones.Ricardo@epa.gov]; Herrick, Jacquelyn [Herrick.Jacquelyn@epa.gov]; Eagle, Venus [Eagle.Venus@epa.gov]; Laws, Meredith [Laws.Meredith@epa.gov]
CC: Rossmeisl, Colleen [Rossmeisl.Colleen@epa.gov]; Smith, Kimberly [Smith.Kimberly@epa.gov]
Subject: RE: New Tier 2 Incident: flumethrin, imidacloprid
Attachments: Seresto Aggregate Incident Summaries.pdf; Seresto Individual Incident Report.xls

Hi All,

The other day I queried both aggregate and individual Seresto incidents in the Incident Data System (see attachments)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

From: Mastrotta, Nicholas
Sent: Wednesday, June 26, 2019 8:56 AM
To: McFarley, Heather <McFarley.Heather@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>; Fletcher, Rachel <fletcher.rachel@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>; Jones, Ricardo <Jones.Ricardo@epa.gov>; Herrick, Jacquelyn <Herrick.Jacquelyn@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Laws, Meredith <Laws.Meredith@epa.gov>
Cc: Rossmeisl, Colleen <Rossmeisl.Colleen@epa.gov>; Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: New Tier 2 Incident: flumethrin, imidacloprid

Catherine et al.,

The reporting of the Seresto and other incidents for pet products in this aggregated format is the result of our current 6a2 regulations which allows registrants to report of all incidents to domesticated animals, regardless of severity, to be reported in aggregated form without any narrative of individual incidents. Several years ago there was an effort in OPP to update the regulations to get better reporting, but that effort seemed to have died out a couple of years ago. In the

meantime, risk managers should know that the 6a2 regulations do allow request of additional information from registrants on incidents that are reported in aggregate form for pesticides that are currently under regulatory review.

Nick

From: McFarley, Heather

Sent: Tuesday, June 25, 2019 3:58 PM

To: Aubee, Catherine <Aubee.Catherine@epa.gov>; OPP Incidents Screening <Opp_Incidents_Screening@epa.gov>; Fletcher, Rachel <fletcher.rachel@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>; Jones, Ricardo <Jones.Ricardo@epa.gov>; Herrick, Jacquelyn <Herrick.Jacquelyn@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Laws, Meredith <Laws.Meredith@epa.gov>

Cc: Mastrota, Nicholas <Mastrota.Nicholas@epa.gov>

Subject: RE: New Tier 2 Incident: flumethrin, imidacloprid

Hello Catherine,

I hope you are well.

The incident report you received is the tracking of all the incidents related to the identified product (Seresto) and active ingredients (flumethrin-imidacloprid) over the given time period (Jan 1 – Mar 31, 2019). Attached is a reference that defines the definitions of the severity category (see pg 24). There is no additional narrative associated with the aggregate report. Let me know if you have any additional questions/concerns. Thank you.

Have a good day,
Heather

From: Aubee, Catherine

Sent: Tuesday, June 25, 2019 1:22 PM

To: McFarley, Heather <McFarley.Heather@epa.gov>; OPP Incidents Screening <Opp_Incidents_Screening@epa.gov>; Fletcher, Rachel <fletcher.rachel@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>; Jones, Ricardo <Jones.Ricardo@epa.gov>; Herrick, Jacquelyn <Herrick.Jacquelyn@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Laws, Meredith <Laws.Meredith@epa.gov>

Subject: RE: New Tier 2 Incident: flumethrin, imidacloprid

Hi Heather *et al.*,

Is there a narrative incident report associated with this item? I only see the aggregate numbers in the attachment.

Best,
Catherine
Chief, OPP RD IVB1

From: McFarley, Heather

Sent: Friday, May 31, 2019 4:02 PM

To: OPP Incidents Screening <Opp_Incidents_Screening@epa.gov>; Fletcher, Rachel <fletcher.rachel@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>; Jones, Ricardo <Jones.Ricardo@epa.gov>; Herrick, Jacquelyn <Herrick.Jacquelyn@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Laws, Meredith <Laws.Meredith@epa.gov>

Subject: RE: New Tier 2 Incident: flumethrin, imidacloprid

Please disregard previous incident. Attached is the incident for flumethrin and imidacloprid. Thank you.

Have a good weekend,
Heather

From: OPP Incidents Screening

Sent: Friday, May 31, 2019 4:00 PM

To: Fletcher, Rachel <fletcher.rachel@epa.gov>; Biscoe, Melanie <Biscoe.Melanie@epa.gov>; Snyderman, Steven <Snyderman.Steven@epa.gov>; Jones, Ricardo <Jones.Ricardo@epa.gov>; Herrick, Jacquelyn <Herrick.Jacquelyn@epa.gov>; Aubee, Catherine <Aubee.Catherine@epa.gov>; Eagle, Venus <Eagle.Venus@epa.gov>; Laws, Meredith <Laws.Meredith@epa.gov>

Subject: New Tier 2 Incident: flumethrin, imidacloprid

Good afternoon,

Attached is an incident related to an AI(s) you manage. The incident was labeled a Tier 2 incident by the OPP Incident Screening Team (IST). Tier 2 indicates that the incident is NOT high-priority and generally does not require immediate action, thus risk managers are notified of Tier 2 incidents primarily as an FYI, and the incidents can be addressed in the next registration/registration review action. Please let us know if you have any questions or comments.

Have a good day,

Heather McFarley
Secretary, Incident Screening Team

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 28

Aggregate Incident Summary Report by Product

Report Date & Time : 06/20/2019 7:25:24 AM G

Reg No. Selected : 011556-00155

Product Name: All

Exposure Severity Code HD;HE;DA;DB;DC;DD

Reporting Date Range: 01/01/1998 To 06/20/2019

Package and Seq. #	Full Product Reg. #	Product Name	Form.	Total Inc.	H D	H E	D A	D B	D C	D D	D E	W B	P B	O N	G B	G C	D W	D C	G W	G C	S W	S C	P D	P C
024671-00008	011556-00155	SERESTO CAT	Impregnated Materials	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
024968-00005	011556-00155	SERESTO LARGE DOG	Impregnated Materials	56	0	0	2	0	0	23	31	0	0	0	0	0	0	0	0	0	0	0	0	0
025109-00007	011556-00155	SERESTO	Impregnated Materials	141	2	0	6	0	0	32	101	0	0	0	0	0	0	0	0	0	0	0	0	0
025472-00010	011556-00155	SERESTO	Impregnated Materials	944	25	0	19	9	0	222	669	0	0	0	0	0	0	0	0	0	0	0	0	0
025767-00009	011556-00155	SERESTO	Impregnated Materials	1,661	13	0	37	90	0	447	1,074	0	0	0	0	0	0	0	0	0	0	0	0	0
026184-00005	011556-00155	SERESTO	Impregnated Materials	1,076	15	0	23	101	0	269	668	0	0	0	0	0	0	0	0	0	0	0	0	0
026494-00002	011556-00155	SERESTO	Impregnated Materials	602	4	0	17	80	0	161	350	0	0	0	0	0	0	0	0	0	0	0	0	0
026745-00008	011556-00155	SERESTO	Impregnated Materials	1,896	25	0	29	90	0	433	1,319	0	0	0	0	0	0	0	0	0	0	0	0	0
027067-00012	011556-00155	SERESTO	Impregnated Materials	2,028	30	0	31	159	0	505	1,303	0	0	0	0	0	0	0	0	0	0	0	0	0
027348-00007	011556-00155	SERESTO	Impregnated Materials	1,301	19	0	28	98	0	315	841	0	0	0	0	0	0	0	0	0	0	0	0	0
027609-00005	011556-00155	SERESTO	Impregnated Materials	775	8	0	20	80	0	197	471	0	0	0	0	0	0	0	0	0	0	0	0	0
027876-00012	011556-00155	SERESTO	Impregnated Materials	3,265	39	0	52	133	0	747	2,296	0	0	0	0	0	0	0	0	0	0	0	0	0
028098-00010	011556-00155	SERESTO	Impregnated Materials	3,507	24	0	70	273	0	770	2,370	0	0	0	0	0	0	0	0	0	0	0	0	0
028336-00008	011556-00155	SERESTO	Impregnated Materials	2,221	15	0	49	229	0	507	1,421	0	0	0	0	0	0	0	0	0	0	0	0	0
028777-00004	011556-00155	SERESTO	Impregnated Materials	1,456	20	0	37	125	0	324	950	0	0	0	0	0	0	0	0	0	0	0	0	0
029069-00009	011556-00155	SERESTO	Impregnated Materials	4,076	33	0	69	148	0	858	2,970	0	0	0	0	0	0	0	0	0	0	0	0	0
029169-00002	011556-00155	SERESTO LARGE DOG	Impregnated Materials	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029308-00008	011556-00155	SERESTO	Impregnated Materials	4,417	26	0	86	309	0	981	3,015	0	0	0	0	0	0	0	0	0	0	0	0	0

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 28

Aggregate Incident Summary Report by Product

Report Date & Time : 06/20/2019 7:25:24 AM G

Package and Seq. #	Full Product Reg. #	Product Name	Form.	Total Inc.	H D	H E	D A	D B	D C D E	D C	D D	D E	W B	P B	O N T	G B	G C	D W B	D W C	G W B	G W C	S W B	S W C	P D B	P D C
029600-00007	011556-00155	SERESTO	Impregnated Materials	2,488	15	0	54	239	0	600	1,580	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029843-00005	011556-00155	SERESTO	Impregnated Materials	1,697	15	0	54	159	1,118	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030205-00008	011556-00155	SERESTO	Impregnated Materials	4,101	34	0	92	208	3,767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030491-00009	011556-00155	SERESTO	Impregnated Materials	4,564	24	0	87	350	4,103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030703-00006	011556-00155	SERESTO	Impregnated Materials	3,011	21	0	86	299	2,605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030964-00006	011556-00155	SERESTO	Impregnated Materials	1,490	18	0	63	157	1,252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
031245-00008	011556-00155	SERESTO	Impregnated Materials	4,381	35	0	125	226	3,995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
031516-00012	011556-00155	SERESTO	Impregnated Materials	5,247	40	0	148	102	4,958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
031728-00008	011556-00155	SERESTO	Impregnated Materials	3,019	24	0	81	21	2,893	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032053-00003	011556-00155	SERESTO	Impregnated Materials	1,669	25	0	70	13	1,561	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary by Full Reg.

Full Product Reg. #	Total Inc.	HD	HE	DA	DB	DCDE	DC	DD	DE	WB	PB	ONT	GB	GC	DWB	DWC	GWB	GWC	SWB	SWC	PDB	PDC
011556-00155	61,100	549	0	1,435	3,698	26,252	7,743	21,439	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary by 11 Character Reg.

11 Char Reg. #	Total Inc.	HD	HE	DA	DB	DCDE	DC	DD	DE	WB	PB	ONT	GB	GC	DWB	DWC	GWB	GWC	SWB	SWC	PDB	PDC
011556-00155	61,100	549	0	1,435	3,698	26,252	7,743	21,439	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Exposure Severity Code	Description
DA	Domestic Animal - Fatality
DB	Domestic Animal - Major
DC	Domestic Animal - Moderate
DCDE	Domestic Animal - Moderate, Minor and Unknown
DD	Domestic Animal - Minor
DE	Domestic Animal - Unspecified

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 28

Aggregate Incident Summary Report by Product

Report Date & Time : 06/20/2019 7:25:24 AM G

Exposure Severity Code	Description
DWB	Drinking Water - Moderate
DWC	Drinking Water - Minor
GB	Groundwater - Moderate (with possibly mixed types of water)
GC	Groundwater - Minor (with possibly mixed types of water)
GWB	Groundwater - Moderate
GWC	Groundwater - Minor
HD	Human - Minor
HE	Human - Unspecified
ONT	Other Nontarget
PB	Plant Damage - Minor
PDB	Property Damage - Moderate
PDC	Property Damage - Minor
PL	Plant Lawn
SWB	Surface Water - Moderate
SWC	Surface Water - Minor
WB	Wildlife - Minor

Incident Package Report	Page#	Submission Date	Incident Date	Location	Country
028161 - 00001	1	11/3/2015	10/13/2015	ONANCOCK, VA	US
028116 - 00002	2	7/28/2015	1/1/2015	NY	US
029227 - 00001	1	9/13/2016	10/10/2015	PAINTER, VA	US
029227 - 00001	1	9/13/2016	10/10/2015	PAINTER, VA	US
029227 - 00001	1	9/13/2016	10/10/2015	PAINTER, VA	US
029481 - 00001	1	12/6/2016	11/1/2016	ROME , NY	US
030621 - 00001	1	12/6/2017	11/12/2017	AVONMORE, PA	US
030898 - 00001	1	4/4/2018	4/4/2018	PLATTBURG, NY	US
030960 - 00001	1	4/26/2018	4/6/2018	LEWISBURG, WV	US
032044 - 00001	1	4/29/2019	3/6/2019	CONCORD, OH	US
028116 - 00001	2	7/28/2015	8/1/2014	NY	US
028031 - 00001	1	9/8/2015	7/1/2015	DOUGLAS, MA	US
028793 - 00001	1	4/27/2016	4/25/2016		US
029952 - 00001	1	5/22/2017	5/5/2017	WARRENTON, VA	US
031083 - 00001	1	7/3/2018	7/3/2018		US
026478 - 00001	1	5/28/2014	4/14/2014	HENDERSON, NC	US
027988 - 00001	1	9/11/2015	8/15/2015	GRAPEVINE, TX	US
028116 - 00003	2	7/28/2015	1/1/2015	NY	US
028710 - 00001	1	3/28/2016	2/11/2016	OWENS, MD	US
028801 - 00018	30	4/14/2016	6/12/2015	PHENIX CITY, AL	US
028801 - 00027	39	4/14/2016	5/1/2015	KNIGHTSTOWN, IN	US
028812 - 00008	18	3/17/2016	4/21/2014	HARRISBURG, AZ	US
028801 - 00032	45	4/14/2016	8/18/2015	GRAPEVINE, TX	US
028812 - 00042	77	3/17/2016	10/7/2014	SCHWENKSVILLE, PA	US
029072 - 00001	1	8/1/2016	7/9/2016	RONKONOMA, NY	US
028951 - 00003	7	6/27/2016	4/20/2016	FORT DEFIANCE, VA	US
028951 - 00003	7	6/27/2016	4/20/2016	FORT DEFIANCE, VA	US
029227 - 00002	9	9/13/2016	6/6/2016	BRIGHTON, MI	US
029227 - 00003	13	9/13/2016	7/8/2016	RONKONKOMA, NY	US
029396 - 00001	1	11/14/2016	11/3/2016	WINSTED, CT	US
029999 - 00001	2	6/6/2017	6/2/2017	LONGS, SC	US
031271 - 00001	1	8/14/2018	8/1/2018	MILTON , FL	US
028801 - 00042	55	4/14/2016	12/11/2015	DALLAS, TX	US
030799 - 00001	1	3/1/2018	3/1/2018		US
028801 - 00041	54	4/14/2016	12/11/2015	DALLAS, TX	US
031631 - 00001	1	10/29/2018	8/13/2018	ITHACA, NY	US
027771 - 00005	14	6/17/2015	2/28/2015	EADS, TN	US
025708 - 00001	2	9/30/2013	4/26/2013	HARDWICK, MA	US
025936 - 00007	20	12/2/2013	6/17/2013	AUSTIN, TX	US
026505 - 00006	17	5/30/2014	8/16/2013	SALISBURY, NC	US
026834 - 00006	17	8/25/2014	4/1/2014	WILKES BARRE, PA	US
026992 - 00014	41	10/1/2014	8/16/2013	SALISBURY, NC	US
027357 - 00008	23	1/21/2015	10/18/2014	WYNANTSKILL, NY	US
027273 - 00005	14	12/16/2014	9/3/2014	NEW SALISBURY, IN	US
027514 - 00001	2	3/18/2015	4/7/2014	STUART, FL	US
027771 - 00008	23	6/17/2015	2/16/2015	RICHMOND, VA	US
028036 - 00019	56	9/22/2015	6/6/2015	VA	US
028097 - 00005	14	10/13/2015	6/10/2015	VALENCIA, PA	US
028097 - 00006	17	10/13/2015	1/1/2015	JULIAN, PA	US
028097 - 00013	38	10/13/2015	6/6/2015	VA	US

Report Status	Submitter Type	Date From Scan	Reg Number	Product Name
N	P	11/3/2015	011556-00155	SERESTO CAT
N	N	10/20/2015	011556-00155	SERESTO SMALL DOG
N	N	9/27/2016	011556-00155	SERESTO CAT
N	N	9/27/2016		PROFENDER
N	N	9/27/2016		UNK.
N	N	12/6/2016	011556-00155	SERESTO SMALL DOG
N	N	12/11/2017	011556-00155	SERESTO LARGE DOG
N	N	4/9/2018	011556-00155	SERESTO SMALL DOG
N	N	5/7/2018	011556-00155	SERESTO DOG
N	R	5/13/2019	011556-00155	SERESTO CAT
N	N	10/20/2015	011556-00155	SERESTO SMALL DOG
N	R	1/27/2016	011556-00155	SERESTO LARGE DOG
N	N	4/27/2016	011556-00155	SERESTO CAT
N	N	5/22/2017	011556-00155	SERESTO LARGE DOG
N	P	7/5/2018	011556-00155	SERESTO SMALL DOG
N	N	6/12/2014	011556-00155	SERESTO FOR LARGE DOG
N	N	9/14/2015	011556-00155	SERESTO CAT
N	N	10/20/2015	011556-00155	SERESTO SMALL DOG
N	R	3/30/2016	011556-00155	SERESTO LARGE DOG
N	R	5/16/2016	011556-00155	SERESTO LARGE DOG
N	R	5/16/2016	011556-00155	SERESTO CAT
N	N		011556-00155	SERESTO SMALL DOG
N	R	5/16/2016	011556-00155	SERESTO CAT
N	N		011556-00155	SERESTO LARGE DOG
N	N	8/1/2016	011556-00155	SERESTO
N	N	8/9/2016	011556-00143	K9 ADVANTIX II LARGE DOG
N	N	8/9/2016	011556-00155	PNR1427 INSECTICIDE
N	N	9/27/2016	011556-00155	SERESTO SMALL DOG
N	N	9/27/2016	011556-00155	SERESTO SMALL DOG
N	R	11/14/2016	011556-00155	SERESTO LARGE DOG
N	R	6/6/2017	011556-00155	SERESTO LARGE DOG
N	N	8/15/2018	011556-00155	SERESTO SMALL DOG
N	R	5/16/2016	011556-00155	SERESTO CAT
N	N	3/5/2018	011556-00155	SERESTO SMALL DOG
N	R	5/16/2016	011556-00155	SERESTO CAT
N	P	10/29/2018	011556-00155	SERESTO DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R	12/5/2013	011556-00155	SERESTO LARGE DOG
U	R	1/31/2014	011556-00155	SERESTO LARGE DOG
N	R	9/29/2014	011556-00155	SERESTO CAT
N	R	11/6/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/21/2014	011556-00155	SERESTO CAT
N	R	2/19/2015	011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO DOG
N	R	3/28/2015	011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	10/2/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO (UNSPECIFIED)
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG

Product Manager	PC Code	Ingredient Name
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
Team 99 - Unknown		unknown
Team 99 - Unknown	120401	Metronidazole
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 10 OLD - Richard Gebken	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 04 - Elizabeth Fertich	129099,109701,129032,	Imidacloprid,Permethrin,Pyriproxyfen,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 10 OLD - Richard Gebken	129099,036007,	Imidacloprid,Flumethrin,
RM 10 OLD - Richard Gebken	129099,036007,	Imidacloprid,Flumethrin,
RM 10 OLD - Richard Gebken	129099,036007,	Imidacloprid,Flumethrin,
RM 10 OLD - Richard Gebken	129099,036007,	Imidacloprid,Flumethrin,
RM 01 - Venus Eagle	129099,036007,	Imidacloprid,Flumethrin,
RM 01 - Venus Eagle	129099,036007,	Imidacloprid,Flumethrin,
RM 01 - Venus Eagle	036007,129099,	Flumethrin,Imidacloprid,
RM 01 - Venus Eagle	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,
RM 03 - Catherine Aubee	129099,036007,	Imidacloprid,Flumethrin,
RM 03 - Catherine Aubee	036007,129099,	Flumethrin,Imidacloprid,

Ingredient PM**Exposure Severity Codes**

RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DA
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DA
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DA
Team 99 - Unknown	DA
RM 31 - Eric Miederhoff	DA
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DA
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DA
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DA
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DA
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DA,DC,EB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DB
RM 10 OLD - Richard Gebken, RM 01 OLD - Unknown,	DC
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 01 - Venus Eagle, RM 04 - Elizabeth Fertich, RM 10 - Richard Gebken,	DC
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DC
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DD
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DD
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	DD,
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	DE
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB
RM 01 OLD - Unknown, RM 10 OLD - Richard Gebken,	HB
RM 01 OLD - Unknown, RM 10 OLD - Richard Gebken,	HB
RM 01 OLD - Unknown, RM 10 OLD - Richard Gebken,	HB
RM 01 OLD - Unknown, RM 10 OLD - Richard Gebken,	HB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	HB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	HB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	HB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB
RM 01 - Venus Eagle, RM 03 - Catherine Aubee,	HB
RM 03 - Catherine Aubee, RM 01 - Venus Eagle,	HB

Package Description

Email: from private citizen, 1 D-A, cat death, Oct 2015, Seresto.

Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.

FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.

FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.

FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.

U.S. Consumer Product Safety Commission: received Dec 6, 2016, another dog death involving Seresto.

NPIC: Nov. 2017, Seresto, another dead pet.

Incident Reporting Portal: Apr 2018, another dog death allegedly from the use of the Seresto dog collar.

NPIC: Apr. 2018, a pet incident involving Seresto.

FDA: May 2019, 3 reports involving domestic animal pesticide products.

Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.

U.S. DEPT. OF HEALTH & HUMAN SERVICES, FOOD AND DRUG ADMIN: Owner reports dog becomes lethargic when

NPIC: April 2016, Seresto collar, loss of hair by cat.

U.S. DEPT. OF HEALTH & HUMAN SERVICES: an Australian Shepard experienced stroke like symptoms after collar was

Email: July 2018, a person reported their dog had a tumor in her parathyroid and had it removed, They have used the Seresto (001) dog vomiting, not drinking very much after use of Seresto collar. (002) chihuahua gagging & vomiting 3X, did not eat

NPIC: cat incident involving a Seresto collar, 09/11/2015.

Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.

FDA: 1 Seresto dog incident,

NPIC: 2015 veterinarian portal reports, 48 pet reports.

NPIC: 2015 veterinarian portal reports, 48 pet reports.

NPIC: 2014 pet incident received through the veterinarian portal.

NPIC: 2015 veterinarian portal reports, 48 pet reports.

NPIC: 2014 pet incident received through the veterinarian portal.

NPIC, 8/1/2016, D-C incident involving Seresto.

NPIC: 1 qtr. 2016, 11 spot-on incidents.

NPIC: 1 qtr. 2016, 11 spot-on incidents.

FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.

FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.

NPIC: Nov. 14, 2016, Seresto dog collar incident.

NPIC: a dog became lethargic and uncoordinated each time the owner placed the collar around the dog's neck.

NPIC: Aug 2018, a pet incident case involving Seresto.

NPIC: 2015 veterinarian portal reports, 48 pet reports.

Incident Reporting Portal: March 2018, an 18 week old puppy became very lethargic and cried within hours of putting a new

NPIC: 2015 veterinarian portal reports, 48 pet reports.

Incident Portal: a lack of efficacy report for the Seresto collar.

Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.

Bayer HealthCare: 2 H-B, 11 H-C, Aug. 2013

Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.

Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.

Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014

Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.

Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014

Bayer HealthCare, Animal Health: 5 H-C, 2 H-B for Nov. 2014

Bayer HealthCare: Includes 1 H-B. Symptoms include dermatitis, eczema and erythema.

Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.

Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.

Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.

Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.

Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.

[illegible]

028341 - 00006	17	1/20/2016	9/1/2015	US
028341 - 00007	20	1/20/2016	7/1/2015	US
028713 - 00009	26	3/31/2016	12/1/2015 SHERRILL, NY	US
028861 - 00005	14	5/24/2016	6/1/2015 DULUTH, GA	US
029467 - 00005	14	12/1/2016	6/27/2016 SYRACUSE, NE	US
029467 - 00007	23	12/1/2016	2/1/2016 GA	US
029516 - 00002	5	12/15/2016	5/1/2016	US
029685 - 00005	13	2/22/2017	6/27/2016	US
029685 - 00006	16	2/22/2017	6/27/2016	US
030084 - 00002	5	6/23/2017	5/22/2017 COCOA, FL	US
030085 - 00006	18	6/23/2017	10/1/2016 BEAVER FALLS, PA	US
030303 - 00020	58	8/29/2017	5/27/2017 TUNKHANNOCK, PA	US
030314 - 00004	11	8/29/2017	5/1/2017 CHESTER, IL	US
030475 - 00002	6	10/27/2017	1/1/2016 EASTLAKE, OH	US
030589 - 00001	2	12/1/2017	4/30/2017 FLEETWOOD, PA	US
030787 - 00003	8	2/23/2018	5/1/2017 TUCKERTON, NJ	US
030787 - 00006	18	2/23/2018	6/1/2017 HARRISBURG, PA	US
030640 - 00001	2	12/20/2017	4/30/2017 FLEETWOOD, PA	US
030942 - 00006	16	4/24/2018	12/25/2017 IA	US
030880 - 00003	8	3/23/2018	5/1/2017 TUCKERTON, NJ	US
031139 - 00010	29	6/26/2018	6/1/2016 LILLIAN, AL	US
031139 - 00012	35	6/26/2018	5/1/2017 PLYMOUTH, MA	US
031139 - 00014	41	6/26/2018	10/1/2017 ALVERTON, PA	US
031139 - 00015	44	6/26/2018	5/2/2018 BARNEVELD, WI	US
025972 - 00007	20	12/18/2013	6/17/2013 AUSTIN, TX	US
029467 - 00009	29	12/1/2016	8/1/2016 ARKADELPHIA, AR	US
029959 - 00008	23	5/23/2017	10/1/2016 PEPPERELL, MA	US
027861 - 00008	23	7/22/2015	4/26/2015 ATLANTA, GA	US
029153 - 00011	33	8/23/2016	6/2/2016 SAN MATEO, CA	US
030881 - 00003	8	3/23/2018	12/7/2017 FORT LAUDERDALE, FL	US
031047 - 00005	14	5/24/2018	4/1/2018 BELCHERTOWN, MA	US
031232 - 00017	50	7/31/2018	6/26/2018 ROCHESTER, NY	US
031694 - 00004	11	12/12/2018	7/15/2018 SUSSEX, NJ	US
025108 - 00001	2	5/1/2013	2/25/2013 LEVITTOWN, PA	US
025108 - 00003	8	5/1/2013	3/20/2013 COLUMBUS, OH	US
025328 - 00002	5	6/27/2013	4/25/2013 BELLINGHAM, WA	US
025328 - 00004	11	6/27/2013	5/1/2013 STUYVESANT, NY	US
025328 - 00009	26	6/27/2013	5/21/2013 CUMBERLAND, MD	US
025328 - 00010	29	6/27/2013	5/20/2013 STUART, VA	US
025328 - 00011	32	6/27/2013	5/24/2013 NORTH TONAWANDA, NY	US
025328 - 00013	38	6/27/2013	5/30/2013 FLAT ROCK, NC	US
025473 - 00004	11	8/1/2013	6/17/2013 AUSTIN, TX	US
025473 - 00007	17	8/1/2013	6/23/2013 BRIDGEWATER, CT	US
025473 - 00009	29	8/1/2013	5/21/2013 CUMBERLAND, MD	US
025473 - 00010	32	8/1/2013	6/4/2013 DOYLE, TN	US
025594 - 00001	2	8/30/2013	7/26/2013 WAKEFIELD, RI	US
025594 - 00003	8	8/30/2013	7/24/2013 EVANSVILLE, IN	US
025594 - 00004	11	8/30/2013	7/23/2013 JACKSONVILLE, FL	US
025594 - 00007	20	8/30/2013	7/8/2013 DUNNELLON, FL	US
025594 - 00008	23	8/30/2013	7/5/2013 EL CAJON, CA	US
025594 - 00009	26	8/30/2013	6/23/2013 NY	US

N	R	2/16/2016	011556-00155	SERESTO LARGE DOG
N	R	2/16/2016	011556-00155	SERESTO SMALL DOG
N	R	4/12/2016	011556-00155	SERESTO LARGE DOG
N	R	6/13/2016	011556-00155	SERESTO SMALL DOG
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO CAT
N	R	1/4/2017	011556-00155	SERESTO SMALL DOG
N	R	2/23/2017	011556-00155	SERESTO LARGE DOG
U	R	2/23/2017	011556-00155	SERESTO LARGE DOG
U	R	6/26/2017	011556-00155	SERESTO LARGE DOG
N	R	7/7/2017	011556-00155	SERESTO LARGE DOG
N	R	9/1/2017	011556-00155	SERESTO
N	R	9/13/2017	011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	12/13/2017	011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO DOG (UNSPECIFIED)
U	R		011556-00155	SERESTO LARGE DOG
N	R	4/25/2018	011556-00155	SERESTO (UNSPECIFIED)
U	R	7/6/2018	011556-00155	SERESTO LARGE DOG
N	R	8/6/2018	011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/6/2018	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/6/2018	011556-00155	SERESTO LARGE DOG
U	R	1/2/2014	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO SMALL DOG
N	R	8/27/2016	011556-00155	SERESTO CAT
U	R	7/6/2018	011556-00155	SERESTO CAT
N	R	7/20/2018	011556-00155	SERESTO LARGE DOG
N	R	8/29/2018	011556-00155	SERESTO SMALL DOG
N	R	12/17/2018	011556-00155	SERESTO LARGE DOG
N	R	5/20/2013	011556-00155	SERESTO LARGE DOG
N	R	5/20/2013	011556-00155	SERESTO SMALL DOG
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N	R	7/24/2013	011556-00155	SERESTO SMALL DOG
N	R	7/24/2013	011556-00155	SERESTO LARGE DOG
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N	R	7/24/2013	011556-00155	SERESTO SMALL DOG
N	R	7/24/2013	011556-00155	SERESTO LARGE DOG
N	R	8/21/2013	011556-00155	SERESTO LARGE DOG
N	R	8/21/2013	011556-00155	SERESTO LARGE DOG
N	R	8/21/2013	011556-00155	SERESTO LARGE DOG
N	R	8/21/2013	011556-00155	SERESTO LARGE DOG
N	R	10/29/2013	011556-00155	SERESTO CAT
N	R	10/29/2013	011556-00155	SERESTO SMALL DOG
N	R	10/29/2013	011556-00155	SERESTO CAT
N	R	10/29/2013	011556-00155	SERESTO SMALL DOG
N	R	10/29/2013	011556-00155	SERESTO SMALL DOG
N	R	10/29/2013	011556-00155	SERESTO SMALL DOG

Flumethrin, Imidacloprid,
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[illegible]

Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Feb. 2016, 11 individual incidents, 1 H-B
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer: May 2017, animal incident division.
 Bayer: May 2017, 20 individual incident packages.
 Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 5 Human Incidents. 4 HC and 1 HB incident
 Bayer: Includes 10 H-C and 2 H-B. Symptoms include Laryngeal irritation, Taste disorder, Dermatitis, etc.
 Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer: Includes 1 H-B, 6 H-C and 1 D-E. Symptoms includes Dermatitis, Eczema, Taste disorder, etc.
 Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.
 Bayer: includes 6 H-C and 2 H-B. Symptoms include Taste disorder, Headache, Nausea, etc.
 Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.
 Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.
 Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.
 Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.
 Bayer HealthCare Animal Health: 6 H-C, 2 H-B, Nov. 2013. Includes 2 updates
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: 21 Individual Incident reports. Major and moderate human incidents.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.
 Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.
 Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer HealthCare: 7 H-C, 1 H-B. Symptoms include pruritus, erythema, urticaria, musculoskeletal disorder, hypoaesthesia:
 Bayer HealthCare: 7 H-C, 1 H-B. Symptoms include pruritus, erythema, urticaria, musculoskeletal disorder, hypoaesthesia:
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare: 15 H-C. Symptoms include bullous disorder, periorbital oedema, urticaria, dizziness, lesion, inflammat
 Bayer HealthCare, Animal Health: 11 H-C reports, June 2013
 Bayer HealthCare, Animal Health: 11 H-C reports, June 2013
 Bayer HealthCare, Animal Health: 11 H-C reports, June 2013
 Bayer HealthCare, Animal Health: 11 H-C reports, June 2013
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi
 Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizzi

[illegible][illegible][illegible][illegible]

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025594 - 00014	41	8/30/2013	6/4/2013 BRIDGEWATER, CT	US
025708 - 00004	11	9/30/2013	8/4/2013 CLEMMONS, NC	US
025708 - 00008	23	9/30/2013	5/22/2013 LEXINGTON, KY	US
025708 - 00009	26	9/30/2013	7/28/2013 EUGENE, OR	US
025768 - 00002	5	10/24/2013	9/23/2013 ST. CLAIRSVILLE, OH	US
025768 - 00006	17	10/24/2013	9/18/2013 WALNUT CREEK, CA	US
025768 - 00010	29	10/24/2013	9/1/2013	US
025768 - 00011	32	10/24/2013	7/31/2013 CYNTHIANA, KY	US
025768 - 00012	35	10/24/2013	8/30/2013 BRIDGEWATER, CT	US
025768 - 00012	35	10/24/2013	8/30/2013 BRIDGEWATER, CT	US
025768 - 00012	35	10/24/2013	8/30/2013 BRIDGEWATER, CT	US
025972 - 00002	5	12/18/2013	10/22/2013 CLINTON, CT	US
025972 - 00003	8	12/18/2013	11/11/2013 ITHACA, NY	US
025972 - 00004	11	12/18/2013	11/3/2013 ELMIRA, NY	US
025936 - 00006	17	12/2/2013	8/30/2013 BRIDGEWATER, CT	US
025936 - 00006	17	12/2/2013	8/30/2013 BRIDGEWATER, CT	US
025936 - 00006	17	12/2/2013	8/30/2013 BRIDGEWATER, CT	US
025936 - 00008	23	12/2/2013	9/23/2013 SAINT CLAIRSVILLE, OH	US
025936 - 00009	26	12/2/2013	9/1/2013	US
026185 - 00003	8	2/28/2014	9/18/2013 WALNUT CREEK, CA	US
026106 - 00001	2	1/31/2014	11/15/2013 PAINTER, VA	US
026106 - 00003	8	1/31/2014	12/10/2013 WINDSOR, SC	US
026106 - 00004	11	1/31/2014	11/2/2013 PAINTER, VA	US
026106 - 00006	17	1/31/2014	11/25/2013 LA GRANGE, NC	US
026276 - 00001	2	3/31/2014	2/18/2014 CANTERBURY, CT	US
026276 - 00003	8	3/31/2014	1/23/2014 GREENSBORO, NC	US
026361 - 00002	5	5/1/2014	2/20/2014 WILLIAMSBURG, WV	US
026505 - 00004	11	5/30/2014	4/18/2014 SOUTHWICK, MA	US
026505 - 00007	20	5/30/2014	2/1/2014 FRANKLINVILLE, NJ	US
026505 - 00007	20	5/30/2014	2/1/2014 FRANKLINVILLE, NJ	US
026505 - 00009	26	5/30/2014	4/11/2014 RUTLAND, VT	US
026505 - 00010	29	5/30/2014	4/27/2014 WARFORDSBURG, PA	US
026505 - 00010	29	5/30/2014	4/27/2014 WARFORDSBURG, PA	US
026587 - 00003	8	6/25/2014	5/24/2014 WINFIELD, KS	US
026587 - 00004	11	6/25/2014	3/1/2014 CLINTON, AR	US
026587 - 00005	14	6/25/2014	5/28/2014 KENT, CT	US
026705 - 00004	11	7/28/2014	6/11/2014 POUGHKEEPSIE, NY	US
026705 - 00005	14	7/28/2014	5/16/2014 COATESVILLE, PA	US
026705 - 00006	17	7/28/2014	5/17/2014 FOLEY, AL	US
026834 - 00003	8	8/25/2014	7/23/2014 DU BOIS, PA	CN
026834 - 00005	14	8/25/2014	7/1/2014 STATEN ISLAND, NY	US
026834 - 00007	20	8/25/2014	7/27/2014 GREEN BAY, WI	US
026834 - 00008	23	8/25/2014	6/2/2014 FAIRFAX, VA	US
026834 - 00010	29	8/25/2014	6/23/2014 LEAKEY, TX	US
026834 - 00011	32	8/25/2014	6/23/2014 LEAKEY, TX	US
026992 - 00001	2	10/1/2014	1/1/2014 PEWAUKEE, WI	US
026992 - 00003	8	10/1/2014	8/9/2014 HAVERHILL, MA	US
026992 - 00008	23	10/1/2014	7/1/2014 PITTSBURGH, PA	US
026992 - 00010	29	10/1/2014	7/2/2014 ELMIRA, NY	US
026992 - 00011	32	10/1/2014	8/25/2014 GLENDALE, CA	US
027357 - 00002	5	1/21/2015	12/8/2014 TORRINGTON, CT	US

U	R	10/29/2013	011556-00155	SERESTO LARGE DOG
N	R	12/5/2013	011556-00155	SERESTO LARGE DOG
N	R	12/5/2013	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	12/5/2013	011556-00155	SERESTO CAT
N	R	12/20/2013	011556-00155	SERESTO CAT
N	R	12/20/2013	011556-00155	SERESTO LARGE DOG
N	R	12/20/2013	011556-00155	SERESTO DOG
N	R	12/20/2013	011556-00155	SERESTO SMALL DOG
N	R	12/20/2013	011556-00155	SERESTO CAT
N	R	12/20/2013	011556-00155	SERESTO LARGE DOG
N	R	12/20/2013	011556-00155	SERESTO SMALL DOG
N	R	1/2/2014	011556-00155	SERESTO LARGE DOG
N	R	1/2/2014	011556-00155	SERESTO SMALL DOG
N	R	1/2/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
U	R	1/31/2014	011556-00155	SERESTO LARGE DOG
U	R	1/31/2014	011556-00155	SERESTO CAT
U	R	1/31/2014	011556-00155	SERESTO SMALL DOG
U	R	1/31/2014	011556-00155	SERESTO CAT
U	R	1/31/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	4/29/2014	011556-00155	SERESTO LARGE DOG
N	R	3/12/2014	011556-00155	SERESTO (UNSPECIFIED)
N	R	3/12/2014	011556-00155	SERESTO LARGE DOG
N	R	3/12/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	3/12/2014	011556-00155	SERESTO LARGE DOG
N	R	5/14/2014	011556-00155	SERESTO LARGE DOG
N	R	5/14/2014	011556-00155	SERESTO LARGE DOG
N	R	6/27/2014	011556-00155	SERESTO LARGE DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO LARGE DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO CAT
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	7/29/2014	011556-00155	SERESTO SMALL DOG
N	R	7/29/2014	011556-00155	SERESTO LARGE DOG
N	R	7/29/2014	011556-00155	SERESTO SMALL DOG
N	R	8/11/2014	011556-00155	SERESTO SMALL DOG
N	R	8/11/2014	011556-00155	SERESTO LARGE DOG
N	R	8/11/2014	011556-00155	SERESTO SMALL DOG
N	R	11/6/2014	011556-00155	SERESTO LARGE DOG
N	R	11/6/2014	011556-00155	SERESTO LARGE DOG
N	R	11/6/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/6/2014	011556-00155	SERESTO SMALL DOG
N	R	11/6/2014	011556-00155	SERESTO (UNSPECIFIED)
N	R	11/6/2014	011556-00155	SERESTO (UNSPECIFIED)
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO SMALL DOG
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO SMALL DOG
N	R	2/19/2015	011556-00155	SERESTO LARGE DOG

Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
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Imidacloprid, Flumethrin,
Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
Imidacloprid, Flumethrin,

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Bayer HealthCare, Animal Health: 14 H-C (paraesthesia, dizziness, urticaria, dermal & eye irritation... 3 H-B: chronic dizziness)
 Bayer HealthCare: 2 H-B, 11 H-C, Aug. 2013
 Bayer HealthCare: 2 H-B, 11 H-C, Aug. 2013
 Bayer HealthCare: 2 H-B, 11 H-C, Aug. 2013
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare: 14 human individual reports: H-C & H-B, Sept. 2013.
 Bayer HealthCare Animal Health: 6 H-C, 2 H-B, Nov. 2013. Includes 2 updates
 Bayer HealthCare Animal Health: 6 H-C, 2 H-B, Nov. 2013. Includes 2 updates
 Bayer HealthCare Animal Health: 6 H-C, 2 H-B, Nov. 2013. Includes 2 updates
 Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.
 Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.
 Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.
 Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.
 Bayer HealthCare: 9 individual H-B & H-C reports, Oct. 2013. Includes some updates.
 Bayer HealthCare, Animal Health: 3 H-C, Jan. 2014
 Bayer HealthCare, Animal Health: 8 H-C, 2 H-B, Dec. 2013. Includes some updates.
 Bayer HealthCare, Animal Health: 8 H-C, 2 H-B, Dec. 2013. Includes some updates.
 Bayer HealthCare, Animal Health: 8 H-C, 2 H-B, Dec. 2013. Includes some updates.
 Bayer HealthCare, Animal Health: 8 H-C, 2 H-B, Dec. 2013. Includes some updates.
 Bayer HealthCare, Animal Health: 3 H-C (erythema, bullous disorder, dermatitis, eye irritation), stomatitis), 1 H-B (-004:cf
 Bayer HealthCare, Animal Health: 3 H-C (erythema, bullous disorder, dermatitis, eye irritation), stomatitis), 1 H-B (-004:cf
 Bayer HealthCare, Animal Health: 7 H-C, 1 H-B, March 2014
 Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
 Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
 Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
 Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
 Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
 Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
 Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
 Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
 Bayer HealthCare, Animal Health: 6 H-C, June 2014.
 Bayer HealthCare, Animal Health: 6 H-C, June 2014.
 Bayer HealthCare, Animal Health: 6 H-C, June 2014.
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
 Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
 Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
 Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
 Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
 Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
 Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

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027357 - 00003	8	1/21/2015	12/11/2014 DOVER, DE	US
027357 - 00006	17	1/21/2015	10/19/2014 WYNANTSKILL, NY	US
027357 - 00007	20	1/21/2015	9/16/2014 CT	US
027196 - 00003	8	11/20/2014	10/10/2014 MONTTOURSVILLE, PA	US
027196 - 00004	11	11/20/2014	10/1/2014 NY	US
027196 - 00007	20	11/20/2014	10/18/2014 STURBRIDGE, MA	US
027196 - 00008	23	11/20/2014	10/23/2014 CENTER MORICHES, NY	US
027196 - 00016	47	11/20/2014	7/1/2014 STATEN ISLAND, NY	US
027196 - 00017	50	11/20/2014	1/1/2014 PEWAUKEE, WI	US
027196 - 00018	53	11/20/2014	5/17/2014 FOLEY, AL	US
027196 - 00019	56	11/20/2014	4/18/2014 SOUTHWICK, MA	US
027273 - 00001	2	12/16/2014	10/1/2014 SC	US
027273 - 00004	11	12/16/2014	11/19/2014 APEX, NC	US
027273 - 00007	20	12/16/2014	11/1/2014 ROCHESTER, NY	US
027196 - 00024	71	11/20/2014	9/18/2014 SUNNYVALE, CA	US
027196 - 00025	74	11/20/2014	7/23/2014 WATERBURY, CT	US
027440 - 00001	2	2/23/2015	1/1/2015 LEWES, DE	US
027440 - 00003	8	2/23/2015	12/1/2014 SALEM, OR	US
027440 - 00004	11	2/23/2015	1/9/2015 MA	US
027597 - 00005	14	4/21/2015	3/29/2015 PORTLAND, OR	US
027666 - 00002	5	5/15/2015	4/9/2015 WARRIORS MARK, PA	US
027666 - 00003	8	5/15/2015	4/2/2015 TRADE, TN	US
027666 - 00005	14	5/15/2015	4/5/2014 WARICK , RI	US
027666 - 00006	17	5/15/2015	3/15/2015 COVENTRY, RI	US
027666 - 00007	20	5/15/2015	3/15/2015 COVENTRY, RI	US
027666 - 00009	26	5/15/2015	4/21/2015 FLUSHING, MI	US
027666 - 00010	29	5/15/2015	4/19/2015 STONE RIDGE, NY	US
027771 - 00003	8	6/17/2015	4/21/2015 WEST CAMP, NY	US
027771 - 00004	11	6/17/2015	5/3/2015 MEDFIELD, MA	US
027771 - 00006	17	6/17/2015	4/1/2015 HAMPTON, NH	US
027771 - 00007	20	6/17/2015	4/28/2015 COLUMBUS, GA	US
027771 - 00009	26	6/17/2015	5/4/2015 GROVE CITY, PA	US
027771 - 00010	29	6/17/2015	5/4/2015 GROVE CITY, PA	US
027771 - 00012	35	6/17/2015	5/19/2015 NORTHFORD, CT	US
027771 - 00014	41	6/17/2015	5/24/2015 HIGHTSTOWN, NJ	US
027771 - 00015	44	6/17/2015	4/8/2015 IN	US
027771 - 00016	47	6/17/2015	4/15/2015 IN	US
027861 - 00003	8	7/22/2015	6/2/2015 TOMS RIVER, NJ	US
027861 - 00006	17	7/22/2015	6/10/2015 STILWELL, KS	US
027861 - 00007	20	7/22/2015	6/17/2015 PISCATAWAY, NJ	US
027861 - 00010	29	7/22/2015	6/12/2015 SAN PEDRO, CA	US
027861 - 00012	35	7/22/2015	1/1/2015 RAYNHAM, MA	US
027861 - 00013	38	7/22/2015	6/15/2015 NISKAYUNA, NY	US
027928 - 00003	8	8/18/2015	7/13/2015 MENDON, NY	US
027928 - 00004	11	8/18/2015	7/6/2015 COMPTON, CA	US
027928 - 00008	23	8/18/2015	7/15/2015 HOLBROOK, NY	US
027928 - 00011	32	8/18/2015	4/19/2015 STONE RIDGE, NY	US
028036 - 00001	2	9/22/2015	8/2/2015 SAPULPA, OK	US
028036 - 00004	11	9/22/2015	8/4/2015 MACON, GA	US
028036 - 00006	17	9/22/2015	6/1/2015 ATHENS, TN	US
028036 - 00013	38	9/22/2015	8/26/2015 CINCINNATI, OH	US

N	R	2/19/2015	011556-00155	SERESTO CAT
N	R	2/19/2015	011556-00155	SERESTO SMALL DOG
N	R	2/19/2015	011556-00155	SERESTO CAT
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO LARGE DOG
U	R		011556-00155	SERESTO LARGE DOG
U	R		011556-00155	SERESTO LARGE DOG
U	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO DOG
N	R		011556-00155	SERESTO DOG
N	R		011556-00155	SERESTO DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	2/23/2015	011556-00155	SERESTO CAT
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	5/7/2015	011556-00155	SERESTO SMALL DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO SMALL DOG
N	R	5/18/2015	011556-00155	SERESTO DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO (UNSPECIFIED)
N	R		011556-00155	SERESTO (UNSPECIFIED)
N	R	8/31/2015	011556-00155	SERESTO CAT
N	R	8/31/2015	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO DOG
N	R	8/31/2015	011556-00155	SERESTO SMALL DOG
N	R	9/1/2015	011556-00155	SERESTO LARGE DOG
N	R	9/1/2015	011556-00155	SERESTO LARGE DOG
N	R	9/1/2015	011556-00155	SERESTO LARGE DOG
N	R	9/1/2015	011556-00155	SERESTO LARGE DOG
N	R	10/2/2015	011556-00155	SERESTO SMALL DOG
N	R	10/2/2015	011556-00155	SERESTO CAT
N	R	10/2/2015	011556-00155	SERESTO LARGE DOG
N	R	10/2/2015	011556-00155	SERESTO SMALL DOG

[illegible]

[illegible]

Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
 Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
 Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 5 H-C, 2 H-B for Nov. 2014
 Bayer HealthCare, Animal Health: 5 H-C, 2 H-B for Nov. 2014
 Bayer HealthCare, Animal Health: 5 H-C, 2 H-B for Nov. 2014
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer HealthCare, Animal Health: 25 individual human reports, Oct. 2014 incl. updates.
 Bayer: 4 H-C, Jan 2015.
 Bayer: 4 H-C, Jan 2015.
 Bayer: 4 H-C, Jan 2015.
 Bayer HealthCare: Includes 6 H-C incidents. Symptoms include urticarial, retching, Anorexia, Erythema, Pruritus, Allergic
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer HealthCare's Animal Health Division: 13 H-C, 2 H-B, May 2015.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.

[illegible]

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028036 - 00014	41	9/22/2015	8/19/2015 FRESNO, CA	US
028036 - 00016	47	9/22/2015	8/26/2015 BROOKLYN, NY	US
028036 - 00018	53	9/22/2015	8/14/2015 GULFPORT, MS	US
028097 - 00002	5	10/13/2015	9/11/2015 HUBERT, NC	US
028097 - 00003	8	10/13/2015	8/26/2015 COTTONWOOD, ID	US
028097 - 00007	20	10/13/2015	8/29/2015 BALDWIN, NY	US
028097 - 00010	29	10/13/2015	1/1/2015 INVERNESS, FL	US
028097 - 00010	29	10/13/2015	1/1/2015 INVERNESS, FL	US
028097 - 00014	41	10/13/2015	8/14/2015 GULFPORT, MS	US
028097 - 00015	44	10/13/2015	8/26/2015 BROOKLYN, NY	US
028201 - 00001	2	11/19/2015	9/28/2015 PA	US
028201 - 00003	8	11/19/2015	10/5/2015 COLDWATER, MI	US
028201 - 00011	31	11/19/2015	10/16/2015 SANDY CREEK, NY	US
028201 - 00014	40	11/19/2015	8/1/2015 ROCHELLE, IL	US
028289 - 00001	2	12/17/2015	8/1/2015 WARRENTON , MO	US
028289 - 00010	32	12/17/2015	10/1/2015 SACRAMENTO, CA	US
028289 - 00011	35	12/17/2015	1/1/2015 SAN ANGELO, TX	US
028289 - 00013	44	12/17/2015	11/29/2015 SAN ANGELO, TX	US
028289 - 00014	56	12/17/2015	11/29/2015 WOODBINE, NJ	US
028341 - 00001	2	1/20/2016	11/17/2015	US
028341 - 00004	11	1/20/2016	11/29/2015	US
028341 - 00005	14	1/20/2016	11/30/2015	US
028422 - 00003	8	2/17/2016	1/8/2016 ERIE, PA	US
028422 - 00004	11	2/17/2016	12/1/2015 CUMBERLAND, RI	US
028713 - 00007	20	3/31/2016	2/11/2016 CASTLETON ON HUDSON, NY	US
028713 - 00008	23	3/31/2016	12/1/2015 SHERRILL, NY	US
028767 - 00001	2	4/20/2016	11/20/2015 LENEXA, KS	US
028767 - 00002	5	4/20/2016	2/28/2016 ZANESVILLE, OH	US
028767 - 00004	11	4/20/2016	3/12/2016 HYNDMAN, PA	US
028767 - 00006	17	4/20/2016	3/14/2016 VERSAILLES, KY	US
028767 - 00007	20	4/20/2016	3/16/2016 LITCHFIELD, CT	US
028767 - 00008	23	4/20/2016	3/21/2016 MOUNT WASHINGTON, KY	US
028767 - 00010	29	4/20/2016	3/28/2016 WINSTON, OR	US
028795 - 00003	8	4/28/2016	3/15/2016	US
028795 - 00005	14	4/28/2016	3/14/2016 VERSAILLES, KY	US
028795 - 00006	17	4/28/2016	11/29/2015 WOODBINE, NJ	US
028795 - 00007	20	4/28/2016	11/30/2015 POUGHKEEPSIE, NY	US
028795 - 00008	23	4/28/2016	11/17/2015 SAN ANGELO, TX	US
028795 - 00009	26	4/28/2016	2/28/2016 ZANESVILLE, OH	US
028795 - 00010	29	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028795 - 00011	32	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028795 - 00012	35	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028861 - 00001	2	5/24/2016	4/1/2016 BARRINGTON, RI	US
028861 - 00003	8	5/24/2016	3/9/2016 MANHATTAN, KS	US
028861 - 00006	17	5/24/2016	3/15/2016	US
028861 - 00007	20	5/24/2016	4/13/2016 LAKE CITY , FL	US
028861 - 00008	23	5/24/2016	4/13/2016 RIDGE, NY	US
028861 - 00012	35	5/24/2016	4/23/2016 PORT WENTWORTH, GA	US
028861 - 00013	38	5/24/2016	4/23/2016 BARRINGTON, RI	US
028949 - 00001	2	6/24/2016	5/5/2016 BLACKVILLE, SC	US
028949 - 00003	8	6/24/2016	5/5/2016 NEWTON FALLS, OH	US

N	R	10/2/2015	011556-00155	SERESTO LARGE DOG
N	R	10/2/2015	011556-00155	SERESTO LARGE DOG
N	R	10/2/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO SMALL DOG
N	R	10/15/2015	011556-00155	SERESTO SMALL DOG
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO SMALL DOG
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG
N	R	10/15/2015	011556-00155	SERESTO LARGE DOG
N	R	11/19/2015	011556-00155	SERESTO SMALL DOG
N	R	11/19/2015	011556-00155	SERESTO LARGE DOG
N	R	11/19/2015	011556-00155	SERESTO SMALL DOG
N	R	11/19/2015	011556-00155	SERESTO LARGE DOG
N	R	2/16/2016	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	2/16/2016	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	2/16/2016	011556-00155	SERESTO SMALL DOG
N	R	2/16/2016	011556-00155	SERESTO SMALL DOG
N	R	2/16/2016	011556-00155	SERESTO LARGE DOG
N	R	2/16/2016	011556-00155	SERESTO SMALL DOG
N	R	2/16/2016	011556-00155	SERESTO LARGE DOG
N	R	2/16/2016	011556-00155	SERESTO LARGE DOG
N	R	3/3/2016	011556-00155	SERESTO SMALL DOG
N	R	3/3/2016	011556-00155	SERESTO LARGE DOG
N	R	4/12/2016	011556-00155	SERESTO LARGE DOG
N	R	4/12/2016	011556-00155	SERESTO LARGE DOG
N	R	4/21/2016	011556-00155	SERESTO LARGE DOG
N	R	4/21/2016	011556-00155	SERESTO SMALL DOG
N	R	4/21/2016	011556-00155	SERESTO LARGE DOG
N	R	4/21/2016	011556-00155	SERESTO LARGE DOG
N	R	4/21/2016	011556-00155	SERESTO LARGE DOG
N	R	4/21/2016	011556-00155	SERESTO CAT
N	R	4/21/2016	011556-00155	SERESTO SMALL DOG
N	R	5/18/2016	011556-00155	SERESTO CAT
U	R	5/18/2016	011556-00155	SERESTO LARGE DOG
U	R	5/18/2016	011556-00155	SERESTO LARGE DOG
U	R	5/18/2016	011556-00155	SERESTO LARGE DOG
U	R	5/18/2016	011556-00155	SERESTO SMALL DOG
U	R	5/18/2016	011556-00155	SERESTO SMALL DOG
U	R	5/18/2016	011556-00155	SERESTO SMALL DOG
U	R	5/18/2016	011556-00155	SERESTO SMALL DOG
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
U	R	6/13/2016	011556-00155	SERESTO CAT
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
N	R	6/13/2016	011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO CAT

Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,

[illegible]

Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer HealthCare: Jan 2016, 4 H-C, pet products.
 Bayer HealthCare: Jan 2016, 4 H-C, pet products.
 Bayer; Feb. 2016, 11 individual incidents, 1 H-B
 Bayer; Feb. 2016, 11 individual incidents, 1 H-B
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: May 2016. 12 H-C.
 Bayer: May 2016. 12 H-C.

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028949 - 00004	11	6/24/2016	5/20/2016 PA	US
028949 - 00005	14	6/24/2016	5/10/2016 LEXINGTON, KY	US
028949 - 00007	20	6/24/2016	5/1/2016 WASHINGTON, PA	US
028949 - 00012	38	6/24/2016	5/18/2016 GREENWICH, NY	US
029070 - 00002	2	7/28/2016	6/27/2016 WINTERSVILLE, OH	US
029070 - 00004	9	7/28/2016	5/8/2016 GREENWICH, NY	US
029070 - 00006	15	7/28/2016	6/2/2016 OXFORD, CT	US
029070 - 00007	18	7/28/2016	5/1/2016 SYRACUSE, NY	US
029070 - 00007	18	7/28/2016	5/1/2016 SYRACUSE, NY	US
029070 - 00008	21	7/28/2016	5/23/2016 WEST BURLINGTON, IA	US
029070 - 00009	24	7/28/2016	6/13/2016 FRANKLIN, VA	US
029070 - 00014	39	7/28/2016	5/21/2016 CLARKSVILLE, TN	US
029070 - 00014	39	7/28/2016	5/21/2016 CLARKSVILLE, TN	US
029070 - 00015	42	7/28/2016	5/21/2016 CLARKSVILLE, TN	US
029070 - 00015	42	7/28/2016	5/21/2016 CLARKSVILLE, TN	US
029070 - 00016	45	7/28/2016	6/21/2016 GA	US
029070 - 00019	57	7/28/2016	6/17/2016 PA	US
029070 - 00020	60	7/28/2016	1/1/2015 ANDERSON, MO	US
029153 - 00002	6	8/23/2016	6/27/2016 WINTERSVILLE, OH	US
029153 - 00002	6	8/23/2016	6/27/2016 WINTERSVILLE, OH	US
029153 - 00003	9	8/23/2016	7/4/2016	US
029153 - 00006	18	8/23/2016	7/3/2016 BATON ROUGE, LA	US
029153 - 00008	24	8/23/2016	6/25/2016 MIDLOTHIAN, VA	US
029153 - 00009	27	8/23/2016	6/8/2016 EAGLE MOUNTAIN, UT	US
029153 - 00012	36	8/23/2016	7/22/2016 MARSHALL, TX	US
029258 - 00001	2	9/27/2016	6/17/2016 PA	US
029258 - 00003	8	9/27/2016	8/2/2016 CA	US
029258 - 00006	17	9/27/2016	8/6/2016 RUTLAND, VT	US
029258 - 00008	23	9/27/2016	6/27/2016 VESTAL, NY	US
029258 - 00012	38	9/27/2016	7/1/2016 ALDERSON, WV	US
029258 - 00013	41	9/27/2016	8/23/2016 READING, PA	US
029258 - 00014	44	9/27/2016	8/17/2016 HAZLET, NJ	US
029258 - 00015	47	9/27/2016	8/25/2016 OSSIPPEE, NH	US
029258 - 00016	50	9/27/2016	8/26/2016 NV	US
029339 - 00008	23	10/25/2016	9/2/2016 SALISBURY, MD	US
029339 - 00010	29	10/25/2016	8/4/2016 UPTON, MA	US
029339 - 00012	35	10/25/2016	9/16/2016 WILKES BARRE, PA	US
029339 - 00013	38	10/25/2016	9/7/2016 ENDICOTT, NY	US
029339 - 00018	53	10/25/2016	1/1/2016 WAPPINGERS FALLS, NY	US
029340 - 00004	14	10/25/2016	8/2/2016 CA	US
029340 - 00005	17	10/25/2016	6/25/2016 MIDLOTHIAN, VA	US
029340 - 00006	20	10/25/2016	8/23/2016 READING, PA	US
029340 - 00007	23	10/25/2016	6/13/2016 FRANKLIN, VA	US
029468 - 00001	2	12/1/2016	10/1/2016 MD	US
029468 - 00002	5	12/1/2016	11/11/2016 NH	US
029467 - 00008	26	12/1/2016	10/18/2016 MAGNOLIA, MS	US
029516 - 00001	2	12/15/2016	10/1/2016	US
029516 - 00004	11	12/15/2016	11/11/2016	US
029516 - 00005	14	12/15/2016	11/24/2016	US
029516 - 00006	17	12/15/2016	11/11/2016	US
029591 - 00001	2	1/24/2017	12/14/2016 DUNDEE, MI	US

N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO CAT
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO (UNSPECIFIED)
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO CAT
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO CAT
N	R	8/27/2016 011556-00155	SERESTO SMALL DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO CAT
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO SMALL DOG
N	R	011556-00155	SERESTO (UNSPECIFIED)
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO (UNSPECIFIED)
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	011556-00155	SERESTO LARGE DOG
N	R	10/27/2016 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG
U	R	11/3/2016 011556-00155	SERESTO (UNSPECIFIED)
U	R	11/3/2016 011556-00155	SERESTO LARGE DOG
U	R	11/3/2016 011556-00155	SERESTO LARGE DOG
U	R	11/3/2016 011556-00155	SERESTO LARGE DOG
N	R	12/5/2016 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	12/5/2016 011556-00155	SERESTO LARGE DOG
N	R	12/5/2016 011556-00155	SERESTO LARGE DOG
N	R	1/4/2017 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	1/4/2017 011556-00155	SERESTO LARGE DOG
N	R	1/4/2017 011556-00155	SERESTO SMALL DOG
N	R	1/4/2017 011556-00155	SERESTO CAT
N	R	1/26/2017 011556-00155	SERESTO LARGE DOG

Flumethrin, Imidacloprid,
Flumethrin, Imidacloprid,
Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
Imidacloprid, Flumethrin,
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Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
Flumethrin, Imidacloprid,
Flumethrin, Imidacloprid,

[illegible]

Bayer: May 2016. 12 H-C.
Bayer: May 2016. 12 H-C.
Bayer: May 2016. 12 H-C.
Bayer: May 2016. 12 H-C.
Bayer Animal Health Division: June 2016.
Bayer Animal Health Division: June 2016.
Bayer Animal Health Division: June 2016.
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Bayer Animal Health Division: June 2016.
Bayer Animal Health Division: June 2016.
Bayer Animal Health Division: June 2016.
Bayer Animal Health Division: June 2016.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer: July, 2016, 14 H-C pet related product incidents.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer Animal Health: Aug 2016, human related incidents to pet products.
Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
Bayer: Oct. 2016, 2 H-C follow-up incidents from pet products.
Bayer: Oct. 2016, 2 H-C follow-up incidents from pet products.
Bayer: Oct. 2016, 9 individual human incidents from pet products.
Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
Bayer Crop Protection Animal Health Division: Dec. 2016.

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029591 - 00004	11	1/24/2017	12/28/2016 CORNELIUS, NC	US
029685 - 00003	7	2/22/2017	7/4/2016	US
029685 - 00004	10	2/22/2017	11/11/2016	US
029686 - 00002	5	2/22/2017	1/2/2017 SOUTH DARTMOUTH, MA	US
029686 - 00004	11	2/22/2017	1/5/2017 HARRIMAN, TN	US
029686 - 00005	14	2/22/2017	11/30/2016 PA	US
029686 - 00010	29	2/22/2017	12/1/2016 SEBASTOPOL, CA	US
029792 - 00001	2	3/29/2017	2/3/2017 NY	US
029792 - 00002	5	3/29/2017	2/15/2017 MO	US
029792 - 00003	8	3/29/2017	2/15/2017 MO	US
029792 - 00006	17	3/29/2017	2/24/2017 WALBRIDGE, OH	US
029792 - 00007	23	3/29/2017	12/1/2016 HAMPSTEAD, MD	US
029792 - 00008	27	3/29/2017	2/27/2017 PITTSBURGH, PA	US
029839 - 00002	5	4/18/2017	11/18/2016 BLOOMINGTON, IL	US
029839 - 00006	17	4/18/2017	3/1/2017 PA	US
029839 - 00011	32	4/18/2017	2/27/2017 PITTSBURGH, PA	US
029839 - 00012	35	4/18/2017	2/20/2017 LATROBE, PA	US
029839 - 00013	38	4/18/2017	3/21/2017 BELLE VERNON , PA	US
029839 - 00016	47	4/18/2017	3/20/2017 GULFPORT, MS	US
029959 - 00001	2	5/23/2017	3/22/2017 MARLTON, NJ	US
029959 - 00002	5	5/23/2017	2/22/2017 MESA, AZ	US
029959 - 00005	14	5/23/2017	1/1/2017	US
029959 - 00006	17	5/23/2017	4/5/2017 CA	US
029959 - 00007	20	5/23/2017	4/7/2017 PA	US
029959 - 00009	29	5/23/2017	4/10/2017 COCOA, FL	US
029959 - 00010	32	5/23/2017	4/14/2017 PA	US
029959 - 00012	38	5/23/2017	4/16/2017 MEREDITH, NH	US
029959 - 00013	41	5/23/2017	4/20/2017 MOUNTAINVILLE, NY	US
029959 - 00015	47	5/23/2017	4/18/2017 BOWIE, MD	US
029959 - 00016	50	5/23/2017	3/29/2017 IL	US
029959 - 00018	57	5/23/2017	11/18/2016 BLOOMINGTON, IN	US
029959 - 00019	60	5/23/2017	3/20/2017 GULFPORT, MS	US
029959 - 00020	63	5/23/2017	3/1/2017 PA	US
029959 - 00021	69	5/23/2017	2/15/2017 MO	US
030084 - 00001	2	6/23/2017	1/1/2017 KS	
030085 - 00002	6	6/23/2017	1/1/2017	US
030085 - 00004	12	6/23/2017	4/2/2017 CAVENDISH, VT	US
030085 - 00005	15	6/23/2017	4/29/2017 WARWICK, RI	US
030085 - 00008	24	6/23/2017	5/13/2017 MO	US
030085 - 00011	33	6/23/2017	4/1/2017 MA	US
030085 - 00017	52	6/23/2017	5/29/2017 LENEXA, KS	US
030085 - 00020	61	6/23/2017	5/17/2017 ATLANTA, GA	US
030192 - 00003	11	7/27/2017	5/31/2017 OCONOMOWOC, WI	US
030192 - 00005	17	7/27/2017	5/31/2017 COHOES, NY	US
030192 - 00007	23	7/27/2017	1/1/2017 KS	US
030192 - 00012	41	7/27/2017	5/25/2017 WOODSTOCK, VT	US
030192 - 00015	50	7/27/2017	5/9/2017 APOLLO, PA	US
030192 - 00016	53	7/27/2017	6/19/2017 PITTSBORO, NC	US
030192 - 00018	59	7/27/2017	6/16/2017 DALTON, PA	US
030192 - 00019	62	7/27/2017	5/4/2017 MANAHAWKIN, NJ	US
030303 - 00003	8	8/29/2017	6/20/2017 COWPENS, SC	US

N	R	1/26/2017 011556-00155	SERESTO LARGE DOG
U	R	2/23/2017 011556-00155	SERESTO LARGE DOG
U	R	2/23/2017 011556-00155	SERESTO LARGE DOG
N	R	2/27/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	2/27/2017 011556-00155	SERESTO CAT
N	R	2/27/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	2/27/2017 011556-00155	SERESTO LARGE DOG
N	R	4/3/2017 011556-00155	SERESTO LARGE DOG
N	R	4/3/2017 011556-00155	SERESTO SMALL DOG
N	R	4/3/2017 011556-00155	SERESTO SMALL DOG
N	R	4/3/2017 011556-00155	SERESTO LARGE DOG
N	R	4/3/2017 011556-00155	SERESTO CAT
N	R	4/3/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	5/1/2017 011556-00155	SERESTO CAT
N	R	5/1/2017 011556-00155	SERESTO SMALL DOG
N	R	5/1/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	5/1/2017 011556-00155	SERESTO LARGE DOG
N	R	5/1/2017 011556-00155	SERESTO SMALL DOG
N	R	5/1/2017 011556-00155	SERESTO CAT
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO CAT
N	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
U	R	6/20/2017 011556-00155	SERESTO CAT
U	R	6/20/2017 011556-00155	SERESTO CAT
U	R	6/20/2017 011556-00155	SERESTO SMALL DOG
U	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/26/2017 011556-00155	SERESTO LARGE DOG
N	R	7/7/2017 011556-00155	SERESTO DOG
N	R	7/7/2017 011556-00155	SERESTO LARGE DOG
N	R	7/7/2017 011556-00155	SERESTO CAT
N	R	7/7/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	7/7/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	7/7/2017 011556-00155	SERESTO SMALL DOG
N	R	7/7/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO SMALL DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	9/1/2017 011556-00155	SERESTO LARGE DOG

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[illegible]

Bayer Crop Protection Animal Health Division: Dec. 2016.

Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :

Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :

Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol

Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol

Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol

Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer Animal health: March 2017, 16 H-C incident reports.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: 21 Individual Incident reports. Major and moderate human incidents.

Bayer: May 2017, animal incident division.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: May 2017, 20 individual incident packages.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: June 2017, secondary exposure to humans from animal from animal pet products. 21 individual human incidents.

Bayer: July 2017, 20 H-C and 1 H-B reports.

ving Seresto.

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ED 005739A 00423684-00049

030303 - 00009	26	8/29/2017	6/18/2017 WI	US
030303 - 00010	29	8/29/2017	7/3/2017 WICHESTER, VA	
030303 - 00011	32	8/29/2017	7/20/2017 MOORESVILLE, NC	US
030303 - 00016	47	8/29/2017	7/10/2017 CLAUDEVILLE, VA	US
030303 - 00018	53	8/29/2017	7/26/2017 ANDOVER, MA	US
030314 - 00001	2	8/29/2017	6/19/2017 PITTSBORO, NC	US
030314 - 00002	5	8/29/2017	4/2/2017 CAVENDISH, VT	US
030314 - 00003	8	8/29/2017	7/14/2017 CHESAPEAKE, VA	US
030314 - 00005	14	8/29/2017	7/11/2017 NICHOLASVILLE, KY	US
030378 - 00001	2	9/19/2017	8/1/2017 FAIRHAVEN , MA	US
030378 - 00002	5	9/19/2017	7/11/2017 NICHOLASVILLE, KY	US
030378 - 00004	1	9/19/2017	6/1/2017 RI	US
030378 - 00005	14	9/19/2017	1/5/2017 RI	US
030378 - 00006	17	9/19/2017	8/3/2017 ROBBINSVILLE, NJ	US
030378 - 00007	20	9/19/2017	8/20/2017 OKATIE, SC	US
030378 - 00008	23	9/19/2017	7/14/2017 CHEASAPEAKE, VA	US
030378 - 00010	29	9/19/2017	7/31/2017 KNOXVILLE, TN	US
030378 - 00013	38	9/19/2017	6/18/2017 CARROLLTON, GA	US
030378 - 00015	44	9/19/2017	7/1/2017 ROCHESTER, NY	US
030378 - 00016	47	9/19/2017	7/15/2017 GENEVA, OH	US
030378 - 00017	50	9/19/2017	7/21/2017 NY	US
030378 - 00020	59	9/19/2017	8/4/2017 ACAMPO, CA	US
030475 - 00003	9	10/27/2017	8/11/2017 SALINAS, CA	US
030475 - 00004	12	10/27/2017	9/14/2017 CARMEL, CA	US
030475 - 00009	27	10/27/2017	8/21/2017 EAST WINDSOR, NJ	US
030475 - 00010	30	10/27/2017	9/24/2017 SAINT LOUIS, MO	US
030591 - 00002	5	12/1/2017	10/12/2017 PHOENIX, AZ	US
030591 - 00003	8	12/1/2017	9/23/2017 SLIDELL, LA	US
030591 - 00005	14	12/1/2017	10/5/2017 CHESTER, NE	US
030591 - 00006	17	12/1/2017	10/7/2017 KILMARNOCK, VA	US
030591 - 00007	20	12/1/2017	10/13/2017 LEXINGTON, NC	US
030591 - 00008	23	12/1/2017	10/31/2017 NEW BERN, NC	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030702 - 00001	2	1/23/2018	1/1/2017 TAMPA, FL	US
030702 - 00002	5	1/23/2018	12/7/2017 FORT LAUDERDALE, FL	US
030702 - 00003	8	1/23/2018	1/1/2017 STATESBORO, GA	US
030702 - 00006	17	1/23/2018	10/19/2017 YOUNGSTOWN, OH	US
030787 - 00002	5	2/23/2018	12/7/2017 FORT LAUDERDALE, FL	US
030787 - 00004	11	2/23/2018	11/29/2015 WOODBINE, NJ	US
030787 - 00005	14	2/23/2018	2/28/2016 ZANESVILLE, OH	US
030787 - 00007	21	2/23/2018	1/4/2018 FLINT, MI	US
030787 - 00009	27	2/23/2018	12/1/2017 CT	US
030787 - 00010	30	2/23/2018	1/8/2018 BROOKLYN, MI	US
030787 - 00012	39	2/23/2018	1/3/2018 BLOOMINGTON, IN	US
030787 - 00014	48	2/23/2018	1/19/2018 OXFORD, NC	US
030702 - 00010	33	1/23/2018	4/25/2017 EATON RAPIDS, MI	US
030640 - 00003	8	12/20/2017	5/1/2017 EATON RAPIDS, MI	US
030640 - 00007	20	12/20/2017	5/1/2017 MILLEDGEVILLE, GA	US
030942 - 00002	4	4/24/2018	2/22/2018 ORLANDO, FL	US

N	R	9/1/2017	011556-00155	SERESTO DOG
N	R	9/1/2017	011556-00155	SERESTO DOG
N	R	9/1/2017	011556-00155	SERESTO LARGE DOG
N	R	9/1/2017	011556-00155	SERESTO CAT
N	R	9/1/2017	011556-00155	SERESTO CAT
N	R	9/13/2017	011556-00155	SERESTO LARGE DOG
U	R	9/13/2017	011556-00155	SERESTO LARGE DOG
N	R	9/13/2017	011556-00155	SERESTO SMALL DOG
N	R	9/13/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO CAT
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO LARGE DOG
N	R	9/27/2017	011556-00155	SERESTO LARGE DOG
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG (OUS)
N	R	9/27/2017	011556-00155	SERESTO CAT
N	R	9/27/2017	011556-00155	SERESTO SMALL DOG
N	R	9/27/2017	011556-00155	SERESTO LARGE DOG
N	R	9/27/2017	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	9/27/2017	011556-00155	SERESTO DOG
N	R		011556-00155	SERESTO (UNSPECIFIED)
N	R		011556-00155	SERESTO (UNSPECIFIED)
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	12/13/2017	011556-00155	SERESTO SMALL DOG
U	R	12/13/2017		FORESTO LARGE DOG
U	R	12/13/2017		FORESTO SMALL DOG / SMALL CAT
U	R	12/13/2017	011556-00155	SERESTO SMALL DOG
N	R	7/24/2018	011556-00155	SERESTO SMALL DOG
N	R	7/24/2018	011556-00155	SERESTO CAT
N	R	7/24/2018	011556-00155	SERESTO SMALL DOG
N	R	7/24/2018	011556-00155	SERESTO SMALL DOG
U	R		011556-00155	SERESTO CAT
U	R		011556-00155	SERESTO LARGE DOG
U	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO CAT
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO CAT
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
U	R	7/24/2018	011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO CAT
N	R	4/25/2018	011556-00155	SERESTO LARGE DOG

[illegible]

[illegible]

Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 20 H-C and 1 H-B reports.
 Bayer: July 2017, 5 Human Incidents. 4 HC and 1 HB incident
 Bayer: July 2017, 5 Human Incidents. 4 HC and 1 HB incident
 Bayer: July 2017, 5 Human Incidents. 4 HC and 1 HB incident
 Bayer: July 2017, 5 Human Incidents. 4 HC and 1 HB incident
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Aug 2017, human incidents from secondary exposure to pet products.
 Bayer: Includes 10 H-C and 2 H-B. Symptoms include Laryngeal irritation, Taste disorder, Dermatitis, etc.
 Bayer: Includes 10 H-C and 2 H-B. Symptoms include Laryngeal irritation, Taste disorder, Dermatitis, etc.
 Bayer: Includes 10 H-C and 2 H-B. Symptoms include Laryngeal irritation, Taste disorder, Dermatitis, etc.
 Bayer: Includes 10 H-C and 2 H-B. Symptoms include Laryngeal irritation, Taste disorder, Dermatitis, etc.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm
 Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.
 Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.
 Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.
 Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.
 Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.
 Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.
 Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer Animal Health: Includes 1 D-D, 11 H-C and 2 H-B. Symptoms include Hypersalivation, Paraesthesia, Hypersensitiv
 Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.
 Bayer: Includes 1 H-B, 6 H-C and 1 D-E. Symptoms includes Dermatitis, Eczema, Taste disorder, etc.
 Bayer: Includes 1 H-B, 6 H-C and 1 D-E. Symptoms includes Dermatitis, Eczema, Taste disorder, etc.
 Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

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030942 - 00005	13	4/24/2018	9/1/2017 IA	US
030942 - 00008	22	4/24/2018	3/10/2018 NJ	US
030942 - 00011	31	4/24/2018	3/5/2018 MI	US
030880 - 00005	14	3/23/2018	2/13/2018 EVANS CITY, PA	US
030881 - 00004	11	3/23/2018	6/19/2017 PITTSBORO, NC	US
030881 - 00005	14	3/23/2018	11/29/2015 WOODBINE, NJ	US
030881 - 00006	17	3/23/2018	4/25/2017 EATON RAPIDS, MI	US
030881 - 00007	20	3/23/2018	2/28/2016 ZANESVILLE, OH	US
030881 - 00008	23	3/23/2018	7/31/2017 KNOXVILLE, TN	US
031047 - 00001	2	5/24/2018	4/1/2018 VISALIA, CA	US
031047 - 00002	5	5/24/2018	1/1/2018 FL	US
031047 - 00003	8	5/24/2018	3/27/2018 GRANBURY, TX	US
031047 - 00007	20	5/24/2018	3/1/2018 KING, NC	US
031047 - 00008	23	5/24/2018	4/1/2018 OLD SAYBROOK, CT	US
031047 - 00009	26	5/24/2018	4/5/2018 MILLFIELD , OH	US
031047 - 00010	29	5/24/2018	3/1/2018 TN	US
031047 - 00011	32	5/24/2018	4/13/2018 FRUITPORT, MI	US
031047 - 00012	35	5/24/2018	4/22/2018 EAST YAPHANK, NY	US
031139 - 00003	8	6/26/2018	3/16/2018 CARTHAGE, MO	US
031139 - 00005	14	6/26/2018	5/7/2018 NEWTON, NJ	US
031139 - 00008	23	6/26/2018	5/4/2018 FLAGLER BEACH, FL	US
031139 - 00009	26	6/26/2018	4/18/2018 ETOWAH, TN	US
031139 - 00011	32	6/26/2018	4/1/2018 SEARCY, AR	US
031139 - 00016	47	6/26/2018	4/11/2018 CANASTOTA, NY	US
031139 - 00017	49	6/26/2018	5/13/2018 MANCHESTER, CT	US
031139 - 00018	52	6/26/2018	5/17/2018 KNOXVILLE, TN	US
031139 - 00022	64	6/26/2018	5/24/2018 CINCINNATI, OH	US
031139 - 00025	73	6/26/2018	4/1/2018 CLEARWATER, FL	US
031139 - 00026	76	6/26/2018	5/29/2018 FAYETTE CITY, PA	US
031232 - 00001	2	7/31/2018	6/2/2018 WILLOW SPRINGS, MO	US
031232 - 00009	26	7/31/2018	6/6/2018 PHILADELPHIA, PA	US
031232 - 00012	35	7/31/2018	6/13/2018 CA	US
031232 - 00018	53	7/31/2018	5/1/2018 RI	US
031232 - 00019	56	7/31/2018	6/19/2018 JACKSON, NJ	US
031138 - 00001	2	6/26/2018	4/5/2018 MILLFIELD , OH	US
031320 - 00002	5	8/22/2018	6/9/2018 OSHKOSH, WI	US
031320 - 00003	8	8/22/2018	6/12/2018 MONTEREY, CA	US
031320 - 00004	11	8/22/2018	6/23/2018 HENDERSON, TN	US
031320 - 00006	17	8/22/2018	5/11/2018 BENTLEYVILLE, PA	US
031320 - 00007	20	8/22/2018	5/1/2018 PITTSBORO, NC	US
031320 - 00008	23	8/22/2018	6/4/2018 LABELLE, FL	US
031320 - 00011	32	8/22/2018	6/18/2018 WESTON, MA	US
031320 - 00014	41	8/22/2018	7/24/2018 CA	US
031321 - 00002	5	8/23/2018	5/28/2018 MUNCY, PA	US
031445 - 00001	2	9/26/2018	8/1/2018 MADISON, AL	US
031445 - 00002	5	9/26/2018	5/28/2018 MUNCY, PA	US
031445 - 00003	8	9/26/2018	7/22/2018	US
031445 - 00004	11	9/26/2018	1/1/2018 SYLACAUGA, AL	US
031445 - 00005	14	9/26/2018	7/10/2018 OCEANSIDE, CA	US
031445 - 00007	20	9/26/2018	1/1/2018 DAVISBURG, MI	US
031445 - 00008	26	9/26/2018	3/1/2018 BANGOR, PA	US

N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	R	4/25/2018 011556-00155	SERESTO SMALL DOG
N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO CAT
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO SMALL DOG
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO CAT
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO SMALL DOG
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/29/2018 011556-00155	SERESTO LARGE DOG
N	R	8/29/2018 011556-00155	SERESTO LARGE DOG
N	R	8/29/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/29/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/29/2018 011556-00155	SERESTO CAT
U	R	8/20/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO CAT
N	R	9/14/2018 011556-00155	SERESTO SMALL DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO CAT
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO SMALL DOG
N	R	8/30/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO SMALL DOG
U	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG
N	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG

[illegible]

[illegible]

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: includes 6 H-C and 2 H-B. Symptoms include Taste disorder, Headache, Nausea, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer: Includes 1 H-C. Symptoms include Erythema, Desquamation, Dermatitis, etc.

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Hypoaesthesia, Paraesthesia, Peripheral nervous system disorder, etc.

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

etc. (JK)

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031445 - 00009	29	9/26/2018	8/22/2018 BOONVILLE, NC	US
031508 - 00001	2	10/23/2018	9/9/2018 PITTSFORD, NY	US
031508 - 00002	5	10/23/2018	9/14/2018 BEAVERTOWN, PA	US
031508 - 00003	8	10/23/2018	9/18/2018 LEXINGTON, TN	US
031509 - 00001	2	10/23/2018	3/1/2018 BANGOR, PA	US
031509 - 00002	5	10/23/2018	9/20/2018 NY	US
031509 - 00003	8	10/23/2018	8/22/2018 BOONVILLE, NC	US
031587 - 00001	2	11/16/2018	3/1/2018 BANGOR, PA	US
031587 - 00002	5	11/16/2018	9/9/2018 PITTSFORD, NY	US
031588 - 00001	2	11/16/2018	9/20/2018 NY	US
031588 - 00004	11	11/16/2018	10/3/2018 PITTSBURGH, PA	US
031588 - 00005	14	11/16/2018	9/12/2018 TRAFFORD, PA	US
031588 - 00008	23	11/16/2018	10/17/2018 MONTPELIER, VT	US
031693 - 00002	5	12/12/2018	9/12/2018 TRAFFORD, PA	US
031693 - 00003	8	12/12/2018	10/17/2018 MONTPELIER, VT	US
031694 - 00001	2	12/12/2018	10/30/2018 TITUSVILLE, FL	US
031694 - 00002	5	12/12/2018	9/3/2018 HERNDON, VA	US
031694 - 00005	14	12/12/2018	11/1/2018 MOUNT HOLLY, NJ	US
031694 - 00006	17	12/12/2018	8/30/2018 BATON ROUGE, LA	US
031694 - 00007	20	12/12/2018	11/4/2018 CHATTANOOGA, TN	US
031694 - 00008	23	12/12/2018	10/16/2018 DRUMS, PA	US
031765 - 00001	2	2/4/2019	9/30/2018 SPRINGBORO, OH	US
031765 - 00003	8	2/4/2019	12/22/2018 FLEMINGTON, NJ	US
031766 - 00001	2	2/4/2019	11/1/2018 MOUNT HOLLY, NJ	US
031766 - 00002	5	2/4/2019	10/16/2018 DRUMS, PA	US
031833 - 00001	2	2/21/2019	1/12/2019 BRANDON, MS	US
031834 - 00003	8	2/21/2019	6/4/2018 LABELLE, FL	US
031834 - 00004	11	2/21/2019	11/1/2018 MOUNT HOLLY , NJ	US
031834 - 00005	14	2/21/2019	9/12/2018 TRAFFORD, PA	US
031834 - 00006	17	2/21/2019	3/1/2018 BANGOR, PA	US
031834 - 00007	20	2/21/2019	10/16/2018 DRUMS, PA	US
031967 - 00003	9	3/29/2019	2/15/2019 POMPANO BEACH, FL	US
032025 - 00001	3	4/23/2019	2/20/2019 HIGHLANDS, NJ	US
032025 - 00003	9	4/23/2019	1/1/2019 IRWIN, PA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032112 - 00001	2	5/22/2019	1/1/2019 THOMSON, GA	US
032113 - 00001	2	5/22/2019	4/1/2019 LYNN, MA	US
032113 - 00003	8	5/22/2019	3/12/2019 LEXINGTON, TN	US
032113 - 00004	11	5/22/2019	4/29/2019 NJ	US
032217 - 00001	2	6/18/2019	6/1/2016 INDEPENDENCE, MO	US
032218 - 00001	2	6/18/2019	4/26/2019 MURFREESBORO, NC	US
032218 - 00002	5	6/18/2019	5/11/2019 MD	US
032218 - 00003	8	6/18/2019	4/22/2019 KS	US
032218 - 00004	11	6/18/2019	1/1/2019	US
027440 - 00002	5	2/23/2015	12/4/2014 PORT CHESTER, NY	US
031320 - 00009	26	8/22/2018	9/1/2017 SOUTH PARK, PA	US

N	R	10/18/2018	011556-00155	SERESTO SMALL DOG
N	R	11/14/2018	011556-00155	SERESTO SMALL DOG
N	R	11/14/2018	011556-00155	SERESTO LARGE DOG
N	R	11/14/2018	011556-00155	SERESTO SMALL DOG
U	R	11/14/2018	011556-00155	SERESTO LARGE DOG
N	R	11/14/2018	011556-00155	SERESTO SMALL DOG
U	R	11/14/2018	011556-00155	SERESTO SMALL DOG
U	R	11/26/2018	011556-00155	SERESTO LARGE DOG
U	R	11/26/2018	011556-00155	SERESTO SMALL DOG
U	R	11/27/2018	011556-00155	SERESTO SMALL DOG
N	R	11/27/2018	011556-00155	SERESTO CAT
N	R	11/27/2018	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/27/2018	011556-00155	SERESTO SMALL DOG
U	R	12/17/2018	011556-00155	SERESTO DOG (UNSPECIFIED)
U	R	12/17/2018	011556-00155	SERESTO SMALL DOG
N	R	12/17/2018	011556-00155	SERESTO SMALL DOG
N	R	12/17/2018	011556-00155	SERESTO LARGE DOG
N	R	12/17/2018	011556-00155	SERESTO CAT
N	R	12/17/2018	011556-00155	SERESTO CAT
N	R	12/17/2018	011556-00155	SERESTO SMALL DOG
N	R	12/17/2018	011556-00155	SERESTO LARGE DOG
N	R	2/7/2019	011556-00155	SERESTO CAT
N	R	2/7/2019	011556-00155	SERESTO SMALL DOG
U	R	2/7/2019	011556-00155	SERESTO CAT
U	R	2/7/2019	011556-00155	SERESTO LARGE DOG
N	R	3/1/2019	011556-00155	SERESTO LARGE DOG
U	R	3/6/2019	011556-00155	SERESTO CAT
U	R	3/6/2019	011556-00155	SERESTO CAT
U	R	3/6/2019	011556-00155	SERESTO DOG (UNSPECIFIED)
U	R	3/6/2019	011556-00155	SERESTO LARGE DOG
U	R	3/6/2019	011556-00155	SERESTO LARGE DOG
N	R	4/2/2019	011556-00155	SERESTO CAT
N	R	4/23/2019	011556-00155	SERESTO CAT
N	R	4/23/2019	011556-00155	SERESTO SMALL DOG
N	R	5/28/2019	011556-00155	SERESTO (UNSPECIFIED)
N	R	5/28/2019	011556-00128	ADVANTAGE II SMALL DOG
N	R	5/28/2019	011556-00130	ADVANTAGE II EXTRA LARGE DOG
N	R	5/28/2019	011556-00127	ADVANTAGE II LARGE DOG
N	R	5/28/2019	011556-00152	ADVANTAGE II LARGE CAT
N	R		011556-00155	SERESTO DOG (UNSPECIFIED)
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO SMALL DOG
N	R		011556-00155	SERESTO LARGE DOG
N	R		011556-00155	SERESTO CAT
N	R		011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	9/14/2018	011556-00155	SERESTO LARGE DOG

Imidacloprid,Flumethrin,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
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Flumethrin,Imidacloprid,
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Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Pyriproxyfen,Imidacloprid,
Imidacloprid,Pyriproxyfen,
Imidacloprid,Pyriproxyfen,
Pyriproxyfen,Imidacloprid,
Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,
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Imidacloprid,Flumethrin,
Flumethrin,Imidacloprid,
Imidacloprid,Flumethrin,

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Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)
 Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)
 Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)
 Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)
 Bayer: Includes 2 H-C. Symptoms include Urticaria, Dermatitis, Eczema, etc. (JK)
 Bayer: Includes 2 H-C. Symptoms include Urticaria, Dermatitis, Eczema, etc. (JK)
 Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)
 Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)
 Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)
 Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Urticaria, Allergic oedema, Pruritus, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Urticaria, Allergic oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Epiphora, Eye Irritation, Cough, et.
 Bayer: Includes 3 H-C. Symptoms include Epiphora, Eye Irritation, Cough, et.
 Bayer: Includes 2 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc.
 Bayer: Includes 2 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc.
 Bayer: Includes 1 H-C. Symptoms include Pruritus, Dermatitis/Eczema, and Bullous disorder.
 Bayer: Includes 7 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 7 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 7 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 7 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 7 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)
 Bayer: Includes 4 H-C. Symptoms include Pruritus, Erythema, Dermatitis, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Epiphora, Hyperhidrosis, Urticaria, etc. (JK)
 Bayer: Includes 3 H-C. Symptoms include Epiphora, Hyperhidrosis, Urticaria, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Hypersensitivity reaction, Pruritus, Dermatitis, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Hypersensitivity reaction, Pruritus, Dermatitis, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Hypersensitivity reaction, Pruritus, Dermatitis, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Hypersensitivity reaction, Pruritus, Dermatitis, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Hypersensitivity reaction, Pruritus, Dermatitis, etc. (JK)
 Bayer: Includes 4 H-C. Symptoms include Laryngeal Irritation, Headache, Lethargy, etc. (JK)
 Bayer: Includes 4 H-C. Symptoms include Laryngeal Irritation, Headache, Lethargy, etc. (JK)
 Bayer: Includes 4 H-C. Symptoms include Laryngeal Irritation, Headache, Lethargy, etc. (JK)
 Bayer: Includes 1 H-C. Symptoms include Inflammation, Blister, Dermatitis and Eczema. (JK)
 Bayer: Includes 5 H-C and 1 H-B(-006). Symptoms include Dysphagia, Alopecia, Weight loss, etc. (JK)
 Bayer: Includes 5 H-C and 1 H-B(-006). Symptoms include Dysphagia, Alopecia, Weight loss, etc. (JK)
 Bayer: Includes 5 H-C and 1 H-B(-006). Symptoms include Dysphagia, Alopecia, Weight loss, etc. (JK)
 Bayer: Includes 5 H-C and 1 H-B(-006). Symptoms include Dysphagia, Alopecia, Weight loss, etc. (JK)
 Bayer: 4 H-C, Jan 2015.
 Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

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Message

From: Miller, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BB7A864DD08445B0A59A63FA36836677-ROBERT MILLER]
Sent: 8/31/2020 2:01:26 PM
To: Smith, Kimberly [Smith.Kimberly@epa.gov]
Subject: Seresto Bullet Points
Attachments: Seresto Bullet Points.docx

Good morning Kimberly:

Attached is list Seresto bullet point you asked me to write-up. In the bullet points Seresto is compared to problematic Spot-on products with the focus on pet deaths.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Take care,

Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

Message

From: Miller, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BB7A864DD08445B0A59A63FA36836677-ROBERT MILLER]
Sent: 8/4/2020 7:19:02 PM
To: Berckes, Nicole [Berckes.Nicole@epa.gov]
Subject: RE: Contact Us about Pesticide Registration
Attachments: Seresto Aggregate Incident Summaries.pdf; 1.1.2014 - 8.4.2020 Seresto Individual Incident Reports.xls; Severity Codes.pdf

Hi Nicole,

Registrants are not required to provide OPP much data for pet incidents. The individual reports contained on the Incident Drive - incidents (\\w2032pccth016) contain much more information than aggregate reports from registrants. To gain access to the drive you need to contact the OPP Helpdesk and possibly EISD. Some of these reports are graphic.

If you have any questions I'm here to help.

Take care,

Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division
EPA Office of Pesticide Programs
Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

-----Original Message-----

From: Berckes, Nicole <Berckes.Nicole@epa.gov>
Sent: Tuesday, August 04, 2020 1:53 PM
To: Miller, Robert <Miller.Robert@epa.gov>
Subject: RE: Contact Us about Pesticide Registration

Bob, thanks so much. Is it possible for us (FEAD CSB) to get a rundown of all incident reports within the last year that you've received regarding these collars? We'd like to look at some data as we figure out best next steps to recommend regarding this product. If it isn't possible to get such a breakdown, though, let me know. Many thanks in advance.

Nicole

Nicole Berckes, U.S. EPA
Office: (202) 566-2569
Cell: (571) 733-8978
Email: berckes.nicole@epa.gov

-----Original Message-----

From: Miller, Robert <Miller.Robert@epa.gov>
Sent: Tuesday, August 4, 2020 12:19 PM
To: Berckes, Nicole <Berckes.Nicole@epa.gov>
Subject: RE: Contact Us about Pesticide Registration

Thank you Nicole. I index the report into the Incident Data System.
Bob

Robert A. Miller
6(a)(2) Coordinator
Information Technology and Resource Management Division EPA Office of Pesticide Programs Mail Code 7508P
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012
miller.robert@epa.gov

-----Original Message-----

From: Berckes, Nicole <Berckes.Nicole@epa.gov>
Sent: Tuesday, August 04, 2020 10:24 AM
To: Miller, Robert <Miller.Robert@epa.gov>
Cc: Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Motilall, Christina <Motilall.Christina@epa.gov>
Subject: FW: Contact Us about Pesticide Registration

Morning Bob - below is another email re: Seresto collars (we believe - it's noted as Ernesto below).

When you're able, please can you send a rundown of all incident reports within the last year that you've received regarding these collars? Many thanks in advance.

Nicole

Nicole Berckes, U.S. EPA
Office: (202) 566-2569
Cell: (571) 733-8978
Email: berckes.nicole@epa.gov

-----Original Message-----

From: drupal_admin@epa.gov <drupal_admin@epa.gov> On Behalf Of Ex. 6 PP - personal name via EPA
Sent: Monday, July 13, 2020 10:59 PM
To: pesticidequestions <pesticidequestions@epa.gov>
Subject: Contact Us about Pesticide Registration

Submitted on 07/13/2020 10:59PM
Submitted values are:

Name: Ex. 6 PP - personal name
E-mail: Ex. 6 PP - personal email
Comments:

Hi,
How do I report a dangerous product? I bought 2 cat collar for fleas (Ernesto brand). One of my kittens died strangled by it. It wasn't too tight. It got a bit loose on its own. My kitten was able to put his lower jaw and strangled himself to death :(. It happened at night while I was sleeping. I want to make sure that no more cats/kittens will be killed by it. I used it for roughly 3 months only so I know it was supposed to still be good. It is a defect in the collar design in my opinion. It should be cat/kitten safe where they can release it on their own if needed. Please please please.
Are you human? Yes

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 42

Aggregate Incident Summary Report by Product

Report Date & Time : 08/04/2020 2:13:03 PM GMT

Reg No. Selected :	011556-00155	
Product Name:	All	
Exposure Severity Code :	All	Reporting Date Range: 01/01/2014 To 08/04/2020

Package and Seq. #	Full Product Reg. #	Product Name	Form.	Total Inc.	H D	H E	D A	D B	D C D E	D C	D D	D E	W B	P B	O N T	G B	G C	D W B	D W C	G W B	G W C	S W B	S W C	P D B	P D C
026494-00002	011556-00155	SERESTO	Impregnated Materials	602	4	0	17	80	0	161	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0
026745-00008	011556-00155	SERESTO	Impregnated Materials	1,896	25	0	29	90	0	433	1,319	0	0	0	0	0	0	0	0	0	0	0	0	0	0
027067-00012	011556-00155	SERESTO	Impregnated Materials	2,028	30	0	31	159	0	505	1,303	0	0	0	0	0	0	0	0	0	0	0	0	0	0
027348-00007	011556-00155	SERESTO	Impregnated Materials	1,301	19	0	28	98	0	315	841	0	0	0	0	0	0	0	0	0	0	0	0	0	0
027609-00005	011556-00155	SERESTO	Impregnated Materials	775	8	0	20	80	0	197	471	0	0	0	0	0	0	0	0	0	0	0	0	0	0
027876-00012	011556-00155	SERESTO	Impregnated Materials	3,265	39	0	52	133	0	747	2,296	0	0	0	0	0	0	0	0	0	0	0	0	0	0
028098-00010	011556-00155	SERESTO	Impregnated Materials	3,507	24	0	70	273	0	770	2,370	0	0	0	0	0	0	0	0	0	0	0	0	0	0
028336-00008	011556-00155	SERESTO	Impregnated Materials	2,221	15	0	49	229	0	507	1,421	0	0	0	0	0	0	0	0	0	0	0	0	0	0
028777-00004	011556-00155	SERESTO	Impregnated Materials	1,456	20	0	37	125	0	324	950	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029069-00009	011556-00155	SERESTO	Impregnated Materials	4,076	33	0	69	148	0	858	2,970	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029169-00002	011556-00155	SERESTO LARGE DOG	Impregnated Materials	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029308-00008	011556-00155	SERESTO	Impregnated Materials	4,417	26	0	86	309	0	981	3,015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029600-00007	011556-00155	SERESTO	Impregnated Materials	2,488	15	0	54	239	0	600	1,580	0	0	0	0	0	0	0	0	0	0	0	0	0	0
029843-00005	011556-00155	SERESTO	Impregnated Materials	1,697	15	0	54	159	1,118	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030205-00008	011556-00155	SERESTO	Impregnated Materials	4,101	34	0	92	208	3,767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030491-00009	011556-00155	SERESTO	Impregnated Materials	4,564	24	0	87	350	4,103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030703-00006	011556-00155	SERESTO	Impregnated Materials	3,011	21	0	86	299	2,605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030964-00006	011556-00155	SERESTO	Impregnated Materials	1,490	18	0	63	157	1,252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 42

Aggregate Incident Summary Report by Product

Report Date & Time : 08/04/2020 2:13:03 PM GMT

Package and Seq. #	Full Product Reg. #	Product Name	Form.	Total Inc.	H D	H E	D A	D B	D C D E	D C	D D	D E	W B	P B	O N T	G B	G C	D W B	D W C	G W B	G W C	S W B	S W C	P D B	P D C
031245-00008	011556-00155	SERESTO	Impregnated Materials	4,381	35	0	12 5	226	3,995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
031516-00012	011556-00155	SERESTO	Impregnated Materials	5,247	40	0	14 8	102	4,958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
031728-00008	011556-00155	SERESTO	Impregnated Materials	3,019	24	0	81	21	2,893	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032053-00003	011556-00155	SERESTO	Impregnated Materials	1,669	25	0	70	13	1,561	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032333-00010	011556-00155	SERESTO	Impregnated Materials	4,651	44	0	15 1	30	4,426	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00008	011556-00155	SERESTO	Impregnated Materials	31	2	0	2	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00009	011556-00155	SERESTO	Impregnated Materials	1,157	7	0	14	2	1,134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00010	011556-00155	SERESTO	Impregnated Materials	168	4	0	8	2	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00011	011556-00155	SERESTO	Impregnated Materials	2,511	10	0	24	14	2,463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00012	011556-00155	SERESTO	Impregnated Materials	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032632-00013	011556-00155	SERESTO	Impregnated Materials	1,476	6	0	4	5	1,461	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00004	011556-00155	SERESTO	Impregnated Materials	14	2	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00005	011556-00155	SERESTO	Impregnated Materials	668	5	0	12	3	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00006	011556-00155	SERESTO	Impregnated Materials	117	5	0	4	0	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00007	011556-00155	SERESTO	Impregnated Materials	1,231	11	0	9	3	1,208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00008	011556-00155	SERESTO	Impregnated Materials	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
032924-00009	011556-00155	SERESTO	Impregnated Materials	693	6	1	12	2	672	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
033132-00006	011556-00155	SERESTO	Impregnated Materials	11	1	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
033132-00007	011556-00155	SERESTO	Impregnated Materials	502	2	0	6	1	493	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
033132-00008	011556-00155	SERESTO	Impregnated Materials	80	1	0	4	1	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
033132-00009	011556-00155	SERESTO	Impregnated Materials	602	6	0	9	3	584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 42

Aggregate Incident Summary Report by Product

Report Date & Time : 08/04/2020 2:13:03 PM GMT

Package and Seq. #	Full Product Reg. #	Product Name	Form.	Total Inc.	H D	H E	D A	D B	D C D E	D C	D D	D E	W B	P B	O N T	G B	G C	D W B	D W C	G W B	G W C	S W B	S W C	P D B	P D C
033132-00010	011556-00155	SERESTO	Impregnated Materials	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
033132-00011	011556-00155	SERESTO	Impregnated Materials	361	5	0	3	3	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
033132-00012	011556-00155	SERESTO CAT	Impregnated Materials	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Summary by Full Reg.

Full Product Reg. #	Total Inc.	HD	HE	DA	DB	DCDE	DC	DD	DE	WB	PB	ONT	GB	GC	DWB	DWC	GWB	GWC	SWB	SWC	PDB	PDC
011556-00155	71,497	611	1	1,611	3,567	40,087	6,750	18,886	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary by 11 Character Reg.

11 Char Reg. #	Total Inc.	HD	HE	DA	DB	DCDE	DC	DD	DE	WB	PB	ONT	GB	GC	DWB	DWC	GWB	GWC	SWB	SWC	PDB	PDC
011556-00155	71,497	611	1	1,611	3,567	40,087	6,750	18,886	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Exposure Severity Code	Description
DA	Domestic Animal - Fatality
DB	Domestic Animal - Major
DC	Domestic Animal - Moderate
DCDE	Domestic Animal - Moderate, Minor and Unknown
DD	Domestic Animal - Minor
DE	Domestic Animal - Unspecified
DWB	Drinking Water - Moderate
DWC	Drinking Water - Minor
GB	Groundwater - Moderate (with possibly mixed types of water)
GC	Groundwater - Minor (with possibly mixed types of water)
GWB	Groundwater - Moderate
GWC	Groundwater - Minor
HD	Human - Minor
HE	Human - Unspecified
ONT	Other Nontarget
PB	Plant Damage - Minor

US EPA Office of Pesticide Programs Incident Data System

Total Rows Returned : 42

Aggregate Incident Summary Report by Product

Report Date & Time : 08/04/2020 2:13:03 PM GMT

Exposure Severity Code	Description
PDB	Property Damage - Moderate
PDC	Property Damage - Minor
PL	Plant Lawn
R	Rainwater
SWB	Surface Water - Moderate
SWC	Surface Water - Minor
WB	Wildlife - Minor

Incident Package Report	Page#	Submission Date	Incident Date	Location	Country
026276 - 00001	2	3/31/2014	2/18/2014	CANTERBURY, CT	US
026276 - 00003	8	3/31/2014	1/23/2014	GREENSBORO, NC	US
026478 - 00001	1	5/28/2014	4/14/2014	HENDERSON, NC	US
026361 - 00002	5	5/1/2014	2/20/2014	WILLIAMSBURG, WV	US
026587 - 00003	8	6/25/2014	5/24/2014	WINFIELD, KS	US
026587 - 00004	11	6/25/2014	3/1/2014	CLINTON, AR	US
026587 - 00005	14	6/25/2014	5/28/2014	KENT, CT	US
026705 - 00004	11	7/28/2014	6/11/2014	POUGHKEEPSIE, NY	US
026705 - 00005	14	7/28/2014	5/16/2014	COATESVILLE, PA	US
026705 - 00006	17	7/28/2014	5/17/2014	FOLEY, AL	US
026505 - 00004	11	5/30/2014	4/18/2014	SOUTHWICK, MA	US
026505 - 00007	20	5/30/2014	2/1/2014	FRANKLINVILLE, NJ	US
026505 - 00007	20	5/30/2014	2/1/2014	FRANKLINVILLE, NJ	US
026505 - 00009	26	5/30/2014	4/11/2014	RUTLAND, VT	US
026505 - 00010	29	5/30/2014	4/27/2014	WARFORDSBURG, PA	US
026505 - 00010	29	5/30/2014	4/27/2014	WARFORDSBURG, PA	US
026834 - 00003	8	8/25/2014	7/23/2014	DU BOIS, PA	CN
026834 - 00005	14	8/25/2014	7/1/2014	STATEN ISLAND, NY	US
026834 - 00006	17	8/25/2014	4/1/2014	WILKES BARRE, PA	US
026834 - 00007	20	8/25/2014	7/27/2014	GREEN BAY, WI	US
026834 - 00008	23	8/25/2014	6/2/2014	FAIRFAX, VA	US
026834 - 00010	29	8/25/2014	6/23/2014	LEAKEY, TX	US
026834 - 00011	32	8/25/2014	6/23/2014	LEAKEY, TX	US
026992 - 00001	2	10/1/2014	1/1/2014	PEWAUKEE, WI	US
026992 - 00003	8	10/1/2014	8/9/2014	HAVERHILL, MA	US
026992 - 00008	23	10/1/2014	7/1/2014	PITTSBURGH, PA	US
026992 - 00010	29	10/1/2014	7/2/2014	ELMIRA, NY	US
026992 - 00011	32	10/1/2014	8/25/2014	GLENDALE, CA	US
027357 - 00002	5	1/21/2015	12/8/2014	TORRINGTON, CT	US
027357 - 00003	8	1/21/2015	12/11/2014	DOVER, DE	US
027357 - 00006	17	1/21/2015	10/19/2014	WYNANTSKILL, NY	US
027357 - 00007	20	1/21/2015	9/16/2014	CT	US
027357 - 00008	23	1/21/2015	10/18/2014	WYNANTSKILL, NY	US
027440 - 00001	2	2/23/2015	1/1/2015	LEWES, DE	US
027440 - 00002	5	2/23/2015	12/4/2014	PORT CHESTER, NY	US
027440 - 00003	8	2/23/2015	12/1/2014	SALEM, OR	US
027440 - 00004	11	2/23/2015	1/9/2015	MA	US
027514 - 00001	2	3/18/2015	4/7/2014	STUART, FL	US
027597 - 00005	14	4/21/2015	3/29/2015	PORTLAND, OR	US
027666 - 00002	5	5/15/2015	4/9/2015	WARRIORS MARK, PA	US
027666 - 00003	8	5/15/2015	4/2/2015	TRADE, TN	US
027666 - 00005	14	5/15/2015	4/5/2014	WARICK , RI	US
027666 - 00006	17	5/15/2015	3/15/2015	COVENTRY, RI	US
027666 - 00007	20	5/15/2015	3/15/2015	COVENTRY, RI	US
027666 - 00009	26	5/15/2015	4/21/2015	FLUSHING, MI	US
027666 - 00010	29	5/15/2015	4/19/2015	STONE RIDGE, NY	US
027861 - 00008	23	7/22/2015	4/26/2015	ATLANTA, GA	US
027861 - 00003	8	7/22/2015	6/2/2015	TOMS RIVER, NJ	US
027861 - 00006	17	7/22/2015	6/10/2015	STILWELL, KS	US
027861 - 00007	20	7/22/2015	6/17/2015	PISCATAWAY, NJ	US

Report Status	Submitter Type	Date From Scan	Reg Number	Product Name
N	R	5/14/2014	011556-00155	SERESTO LARGE DOG
N	R	5/14/2014	011556-00155	SERESTO LARGE DOG
N	N	6/12/2014	011556-00155	SERESTO FOR LARGE DOG
N	R	6/27/2014	011556-00155	SERESTO LARGE DOG
N	R	7/29/2014	011556-00155	SERESTO SMALL DOG
N	R	7/29/2014	011556-00155	SERESTO LARGE DOG
N	R	7/29/2014	011556-00155	SERESTO SMALL DOG
N	R	8/11/2014	011556-00155	SERESTO SMALL DOG
N	R	8/11/2014	011556-00155	SERESTO LARGE DOG
N	R	8/11/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO LARGE DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO SMALL DOG
N	R	9/29/2014	011556-00155	SERESTO CAT
N	R	11/6/2014	011556-00155	SERESTO LARGE DOG
N	R	11/6/2014	011556-00155	SERESTO LARGE DOG
N	R	11/6/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/6/2014	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/6/2014	011556-00155	SERESTO SMALL DOG
N	R	11/6/2014	011556-00155	SERESTO (UNSPECIFIED)
N	R	11/6/2014	011556-00155	SERESTO (UNSPECIFIED)
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO SMALL DOG
N	R	11/21/2014	011556-00155	SERESTO LARGE DOG
N	R	11/21/2014	011556-00155	SERESTO SMALL DOG
N	R	2/19/2015	011556-00155	SERESTO LARGE DOG
N	R	2/19/2015	011556-00155	SERESTO CAT
N	R	2/19/2015	011556-00155	SERESTO SMALL DOG
N	R	2/19/2015	011556-00155	SERESTO CAT
N	R	2/19/2015	011556-00155	SERESTO SMALL DOG
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	2/23/2015	011556-00155	SERESTO CAT
N	R	2/23/2015	011556-00155	SERESTO LARGE DOG
N	R	3/28/2015	011556-00155	SERESTO SMALL DOG
N	R	5/7/2015	011556-00155	SERESTO SMALL DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO SMALL DOG
N	R	5/18/2015	011556-00155	SERESTO DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	5/18/2015	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO SMALL DOG
N	R	8/31/2015	011556-00155	SERESTO CAT
N	R	8/31/2015	011556-00155	SERESTO LARGE DOG
N	R	8/31/2015	011556-00155	SERESTO LARGE DOG

[illegible]

Ingredient PM

[illegible]

Exposure Severity Codes

HC
HC
DC
HC
HC
HC
HC
HC
HC
HC
HB
HC
HC
HC
HC
HC
HC
HC
HC
HC
HC
HC
HC
HB
HC,
HC
HC
HB
HC
HC
HC
HC
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HC
HC
HC
HC
HC

Package Description

Bayer HealthCare, Animal Health: 3 H-C (erythema, bullous disorder, dermatitis, eye irritation), stomatitis), 1 H-B (-004:cl
Bayer HealthCare, Animal Health: 3 H-C (erythema, bullous disorder, dermatitis, eye irritation), stomatitis), 1 H-B (-004:cl
-001) dog vomiting, not drinking very much after use of Seresto collar. -002) chihuahua gagging & vomiting 3X, did not eat
Bayer HealthCare, Animal Health: 7 H-C, 1 H-B, March 2014
Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
Bayer HealthCare: 6 H-C human moderate cases, May 2014. Symptoms include: dermatitis, eczema, urticaria, paraesthesia
Bayer HealthCare, Animal Health: 6 H-C, June 2014.
Bayer HealthCare, Animal Health: 6 H-C, June 2014.
Bayer HealthCare, Animal Health: 6 H-C, June 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C human moderate cases, 2 H-B human major cases, April 2014.
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 9 H-C, 2 H-B, June 2014
Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
Bayer HealthCare, Animal Health: 11 H-C, 1 H-B human cases, 2 PD-C minor property damage incidents.
Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
Bayer HealthCare: 8 H-C and 1 H-B incidents. Human exposure to pet care products. Dec. 2014
Bayer: 4 H-C, Jan 2015.
Bayer: 4 H-C, Jan 2015.
Bayer: 4 H-C, Jan 2015.
Bayer: 4 H-C, Jan 2015.
Bayer Healthcare: Includes 1 H-B. Symptoms include dermatitis, eczema and erythema.
Bayer HealthCare: Includes 6 H-C incidents. Symptoms include urticarial, retching, Anorexia, Erythema, Pruritus, Allergic
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer HealthCare's Animal Division: 12 individual incidents, April 2015.
Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.

ED 005739A 00423728-00006

ED 005739A 00423728-00007

027861 - 00010	29	7/22/2015	6/12/2015 SAN PEDRO, CA	US
027861 - 00012	35	7/22/2015	1/1/2015 RAYNHAM, MA	US
027861 - 00013	38	7/22/2015	6/15/2015 NISKAYUNA, NY	US
027928 - 00003	8	8/18/2015	7/13/2015 MENDON, NY	US
027928 - 00004	11	8/18/2015	7/6/2015 COMPTON, CA	US
027928 - 00008	23	8/18/2015	7/15/2015 HOLBROOK, NY	US
027928 - 00011	32	8/18/2015	4/19/2015 STONE RIDGE, NY	US
027988 - 00001	1	9/11/2015	8/15/2015 GRAPEVINE, TX	US
028036 - 00001	2	9/22/2015	8/2/2015 SAPULPA, OK	US
028036 - 00004	11	9/22/2015	8/4/2015 MACON, GA	US
028036 - 00006	17	9/22/2015	6/1/2015 ATHENS, TN	US
028036 - 00013	38	9/22/2015	8/26/2015 CINCINNATI, OH	US
028036 - 00014	41	9/22/2015	8/19/2015 FRESNO, CA	US
028036 - 00016	47	9/22/2015	8/26/2015 BROOKLYN, NY	US
028036 - 00018	53	9/22/2015	8/14/2015 GULFPORT, MS	US
028036 - 00019	56	9/22/2015	6/6/2015 VA	US
028097 - 00002	5	10/13/2015	9/11/2015 HUBERT, NC	US
028097 - 00003	8	10/13/2015	8/26/2015 COTTONWOOD, ID	US
028097 - 00005	14	10/13/2015	6/10/2015 VALENCIA, PA	US
028097 - 00006	17	10/13/2015	1/1/2015 JULIAN, PA	US
028097 - 00007	20	10/13/2015	8/29/2015 BALDWIN, NY	US
028097 - 00010	29	10/13/2015	1/1/2015 INVERNESS, FL	US
028097 - 00010	29	10/13/2015	1/1/2015 INVERNESS, FL	US
028097 - 00013	38	10/13/2015	6/6/2015 VA	US
028097 - 00014	41	10/13/2015	8/14/2015 GULFPORT, MS	US
028097 - 00015	44	10/13/2015	8/26/2015 BROOKLYN, NY	US
028116 - 00001	2	7/28/2015	8/1/2014 NY	US
028116 - 00002	2	7/28/2015	1/1/2015 NY	US
028116 - 00003	2	7/28/2015	1/1/2015 NY	US
028161 - 00001	1	11/3/2015	10/13/2015 ONANCOCK, VA	US
028201 - 00001	2	11/19/2015	9/28/2015 PA	US
028201 - 00003	8	11/19/2015	10/5/2015 COLDWATER, MI	US
028201 - 00006	17	11/19/2015	6/1/2014 TN	US
028201 - 00011	31	11/19/2015	10/16/2015 SANDY CREEK, NY	US
028201 - 00014	40	11/19/2015	8/1/2015 ROCHELLE, IL	US
028031 - 00001	1	9/8/2015	7/1/2015 DOUGLAS, MA	US
028289 - 00001	2	12/17/2015	8/1/2015 WARRENTON , MO	US
028289 - 00010	32	12/17/2015	10/1/2015 SACRAMENTO, CA	US
028289 - 00011	35	12/17/2015	1/1/2015 SAN ANGELO, TX	US
028289 - 00013	44	12/17/2015	11/29/2015 SAN ANGELO, TX	US
028289 - 00014	56	12/17/2015	11/29/2015 WOODBINE, NJ	US
028341 - 00001	2	1/20/2016	11/17/2015	US
028341 - 00004	11	1/20/2016	11/29/2015	US
028341 - 00005	14	1/20/2016	11/30/2015	US
028341 - 00006	17	1/20/2016	9/1/2015	US
028341 - 00007	20	1/20/2016	7/1/2015	US
028422 - 00003	8	2/17/2016	1/8/2016 ERIE, PA	US
028422 - 00004	11	2/17/2016	12/1/2015 CUMBERLAND, RI	US
028710 - 00001	1	3/28/2016	2/11/2016 OWENS, MD	US
028713 - 00007	20	3/31/2016	2/11/2016 CASTLETON ON HUDSON, NY	US
028713 - 00008	23	3/31/2016	12/1/2015 SHERRILL, NY	US

N	R	8/31/2015 011556-00155	SERESTO LARGE DOG
N	R	8/31/2015 011556-00155	SERESTO DOG
N	R	8/31/2015 011556-00155	SERESTO SMALL DOG
N	R	9/1/2015 011556-00155	SERESTO LARGE DOG
N	R	9/1/2015 011556-00155	SERESTO LARGE DOG
N	R	9/1/2015 011556-00155	SERESTO LARGE DOG
N	R	9/1/2015 011556-00155	SERESTO LARGE DOG
N	N	9/14/2015 011556-00155	SERESTO CAT
N	R	10/2/2015 011556-00155	SERESTO SMALL DOG
N	R	10/2/2015 011556-00155	SERESTO CAT
N	R	10/2/2015 011556-00155	SERESTO LARGE DOG
N	R	10/2/2015 011556-00155	SERESTO SMALL DOG
N	R	10/2/2015 011556-00155	SERESTO LARGE DOG
N	R	10/2/2015 011556-00155	SERESTO LARGE DOG
N	R	10/2/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO SMALL DOG
N	R	10/15/2015 011556-00155	SERESTO SMALL DOG
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO (UNSPECIFIED)
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO SMALL DOG
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	R	10/15/2015 011556-00155	SERESTO LARGE DOG
N	N	10/20/2015 011556-00155	SERESTO SMALL DOG
N	N	10/20/2015 011556-00155	SERESTO SMALL DOG
N	N	10/20/2015 011556-00155	SERESTO SMALL DOG
N	P	11/3/2015 011556-00155	SERESTO CAT
N	R	11/19/2015 011556-00155	SERESTO SMALL DOG
N	R	11/19/2015 011556-00155	SERESTO LARGE DOG
N	R	11/19/2015 011556-00155	SERESTO CAT
N	R	11/19/2015 011556-00155	SERESTO SMALL DOG
N	R	11/19/2015 011556-00155	SERESTO LARGE DOG
N	R	1/27/2016 011556-00155	SERESTO LARGE DOG
N	R	2/16/2016 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	2/16/2016 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	2/16/2016 011556-00155	SERESTO SMALL DOG
N	R	2/16/2016 011556-00155	SERESTO SMALL DOG
N	R	2/16/2016 011556-00155	SERESTO LARGE DOG
N	R	2/16/2016 011556-00155	SERESTO SMALL DOG
N	R	2/16/2016 011556-00155	SERESTO LARGE DOG
N	R	2/16/2016 011556-00155	SERESTO LARGE DOG
N	R	2/16/2016 011556-00155	SERESTO SMALL DOG
N	R	3/3/2016 011556-00155	SERESTO SMALL DOG
N	R	3/3/2016 011556-00155	SERESTO LARGE DOG
N	R	3/30/2016 011556-00155	SERESTO LARGE DOG
N	R	4/12/2016 011556-00155	SERESTO LARGE DOG
N	R	4/12/2016 011556-00155	SERESTO LARGE DOG

[illegible]

[illegible]

Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer Healthcare LLC: Includes 12 H-C and 1 H-B. Symptoms Include Dermatitis, Eczema, Abdominal pain etc.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 Bayer: 9 H-C, July 2015.
 NPIC: cat incident involving a Seresto collar, 09/11/2015.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer Animal Health Division: August 2015, 16 H-C and 3 H-C.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Bayer: 15 H-B and H-C reports involving pet products, Sep 2015.
 Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.
 Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.
 Email: FEAD,07-28-15, NBC News inquiry concerning Seresto pet collars.
 Email: from private citizen, 1 D-A, cat death, Oct 2015, Seresto.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 Bayer: Oct 2015, 13 H-C, 1 H-B Seresto incident.
 U.S. DEPT. OF HEALTH & HUMAN SERVICES, FOOD AND DRUG ADMIN: Owner reports dog becomes lethargic wher
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 BAYER HEALTHCARE, PHARMACEUTICALS, INC.: Nov. 2015, 10 incidents from the Bayer's Animal Health Division.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer: Dec. 2015, 11 pet incident products causing harm to humans.
 Bayer HealthCare: Jan 2016, 4 H-C, pet products.
 Bayer HealthCare: Jan 2016, 4 H-C, pet products.
 FDA: 1 Seresto dog incident,
 Bayer; Feb. 2016, 11 individual incidents, 1 H-B
 Bayer; Feb. 2016, 11 individual incidents, 1 H-B

[illegible]

ED_005739A_00423728-00014

028713 - 00009	26	3/31/2016	12/1/2015 SHERRILL, NY	US
028767 - 00001	2	4/20/2016	11/20/2015 LENEXA, KS	US
028767 - 00002	5	4/20/2016	2/28/2016 ZANESVILLE, OH	US
028767 - 00004	11	4/20/2016	3/12/2016 HYNDMAN, PA	US
028767 - 00006	17	4/20/2016	3/14/2016 VERSAILLES, KY	US
028767 - 00007	20	4/20/2016	3/16/2016 LITCHFIELD, CT	US
028767 - 00008	23	4/20/2016	3/21/2016 MOUNT WASHINGTON, KY	US
028767 - 00010	29	4/20/2016	3/28/2016 WINSTON, OR	US
028793 - 00001	1	4/27/2016	4/25/2016	US
028801 - 00018	30	4/14/2016	6/12/2015 PHENIX CITY, AL	US
028801 - 00027	39	4/14/2016	5/1/2015 KNIGHTSTOWN, IN	US
028801 - 00032	45	4/14/2016	8/18/2015 GRAPEVINE, TX	US
028801 - 00041	54	4/14/2016	12/11/2015 DALLAS, TX	US
028801 - 00042	55	4/14/2016	12/11/2015 DALLAS, TX	US
028795 - 00003	8	4/28/2016	3/15/2016	US
028795 - 00004	11	4/28/2016	12/3/2015 RUMFORD, RI	US
028795 - 00005	14	4/28/2016	3/14/2016 VERSAILLES, KY	US
028795 - 00006	17	4/28/2016	11/29/2015 WOODBINE, NJ	US
028795 - 00007	20	4/28/2016	11/30/2015 POUGHKEEPSIE, NY	US
028795 - 00008	23	4/28/2016	11/17/2015 SAN ANGELO, TX	US
028795 - 00009	26	4/28/2016	2/28/2016 ZANESVILLE, OH	US
028795 - 00010	29	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028795 - 00011	32	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028795 - 00012	35	4/28/2016	6/25/2015 SAN ANGELO, TX	US
028861 - 00001	2	5/24/2016	4/1/2016 BARRINGTON, RI	US
028861 - 00003	8	5/24/2016	3/9/2016 MANHATTAN, KS	US
028861 - 00005	14	5/24/2016	6/1/2015 DULUTH, GA	US
028861 - 00006	17	5/24/2016	3/15/2016	US
028861 - 00007	20	5/24/2016	4/13/2016 LAKE CITY , FL	US
028861 - 00008	23	5/24/2016	4/13/2016 RIDGE, NY	US
028861 - 00012	35	5/24/2016	4/23/2016 PORT WENTWORTH, GA	US
028861 - 00013	38	5/24/2016	4/23/2016 BARRINGTON, RI	US
029072 - 00001	1	8/1/2016	7/9/2016 RONKONOMA, NY	US
028951 - 00003	7	6/27/2016	4/20/2016 FORT DEFIANCE, VA	US
028951 - 00003	7	6/27/2016	4/20/2016 FORT DEFIANCE, VA	US
029153 - 00011	33	8/23/2016	6/2/2016 SAN MATEO, CA	US
029153 - 00002	6	8/23/2016	6/27/2016 WINTERSVILLE, OH	US
029153 - 00002	6	8/23/2016	6/27/2016 WINTERSVILLE, OH	US
029153 - 00003	9	8/23/2016	7/4/2016	US
029153 - 00006	18	8/23/2016	7/3/2016 BATON ROUGE, LA	US
029153 - 00008	24	8/23/2016	6/25/2016 MIDLOTHIAN, VA	US
029153 - 00009	27	8/23/2016	6/8/2016 EAGLE MOUNTAIN, UT	US
029153 - 00012	36	8/23/2016	7/22/2016 MARSHALL, TX	US
029227 - 00001	1	9/13/2016	10/10/2015 PAINTER, VA	US
029227 - 00001	1	9/13/2016	10/10/2015 PAINTER, VA	US
029227 - 00001	1	9/13/2016	10/10/2015 PAINTER, VA	US
029227 - 00002	9	9/13/2016	6/6/2016 BRIGHTON, MI	US
029227 - 00003	13	9/13/2016	7/8/2016 RONKONKOMA, NY	US
029339 - 00008	23	10/25/2016	9/2/2016 SALISBURY, MD	US
029339 - 00010	29	10/25/2016	8/4/2016 UPTON, MA	US
029339 - 00012	35	10/25/2016	9/16/2016 WILKES BARRE, PA	US

N	R	4/12/2016 011556-00155	SERESTO LARGE DOG
N	R	4/21/2016 011556-00155	SERESTO LARGE DOG
N	R	4/21/2016 011556-00155	SERESTO SMALL DOG
N	R	4/21/2016 011556-00155	SERESTO LARGE DOG
N	R	4/21/2016 011556-00155	SERESTO LARGE DOG
N	R	4/21/2016 011556-00155	SERESTO LARGE DOG
N	R	4/21/2016 011556-00155	SERESTO CAT
N	R	4/21/2016 011556-00155	SERESTO SMALL DOG
N	N	4/27/2016 011556-00155	SERESTO CAT
N	R	5/16/2016 011556-00155	SERESTO LARGE DOG
N	R	5/16/2016 011556-00155	SERESTO CAT
N	R	5/16/2016 011556-00155	SERESTO CAT
N	R	5/16/2016 011556-00155	SERESTO CAT
N	R	5/16/2016 011556-00155	SERESTO CAT
N	R	5/18/2016 011556-00155	SERESTO CAT
N	R	5/18/2016 011556-00155	SERESTO LARGE DOG
U	R	5/18/2016 011556-00155	SERESTO LARGE DOG
U	R	5/18/2016 011556-00155	SERESTO LARGE DOG
U	R	5/18/2016 011556-00155	SERESTO LARGE DOG
U	R	5/18/2016 011556-00155	SERESTO SMALL DOG
U	R	5/18/2016 011556-00155	SERESTO SMALL DOG
U	R	5/18/2016 011556-00155	SERESTO SMALL DOG
U	R	5/18/2016 011556-00155	SERESTO SMALL DOG
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	R	6/13/2016 011556-00155	SERESTO SMALL DOG
U	R	6/13/2016 011556-00155	SERESTO CAT
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	R	6/13/2016 011556-00155	SERESTO LARGE DOG
N	N	8/1/2016 011556-00155	SERESTO
N	N	8/9/2016 011556-00155	PNR1427 INSECTICIDE
N	N	8/9/2016 011556-00143	K9 ADVANTIX II LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO CAT
N	R	8/27/2016 011556-00155	SERESTO SMALL DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO CAT
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	R	8/27/2016 011556-00155	SERESTO LARGE DOG
N	N	9/27/2016	UNK.
N	N	9/27/2016	PROFENDER
N	N	9/27/2016 011556-00155	SERESTO CAT
N	N	9/27/2016 011556-00155	SERESTO SMALL DOG
N	N	9/27/2016 011556-00155	SERESTO SMALL DOG
N	R	10/27/2016 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG
N	R	10/27/2016 011556-00155	SERESTO LARGE DOG

ED 005739A 00423728-00017

RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HB
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	DB
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	DC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	DC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	DC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	DD,
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	DD
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HB
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 31 - Eric Miederhoff	DA
Team 99 - Unknown	DA
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	DA
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	DC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	DC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC
RM 01 - Venus Eagle, RM 03 - Jacquelyn Herrick,	HC
RM 03 - Jacquelyn Herrick, RM 01 - Venus Eagle,	HC

Bayer; Feb. 2016, 11 individual incidents, 1 H-B
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 Bayer: March 2016, 11 H-C incidents, all related to pet products.
 NPIC: April 2016, Seresto collar, loss of hair by cat.
 NPIC: 2015 veterinarian portal reports, 48 pet reports.
 NPIC: 2015 veterinarian portal reports, 48 pet reports.
 NPIC: 2015 veterinarian portal reports, 48 pet reports.
 NPIC: 2015 veterinarian portal reports, 48 pet reports.
 NPIC: 2015 veterinarian portal reports, 48 pet reports.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: Includes 11 H-C and 1 H-B. Symptoms include nausea and headache.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 Bayer: April 2016, 11 H-C incidents from pet products.
 NPIC: 8/1/2016, D-C incident involving Seresto.
 NPIC: 1 qtr. 2016, 11 spot-on incidents.
 NPIC: 1 qtr. 2016, 11 spot-on incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 Bayer: July, 2016, 14 H-C pet related product incidents.
 FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.
 FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.
 FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.
 FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.
 FDA: 4 pet incidents, 1 D-A involving Seresto, 3 D-C, two of the incidents involving Seresto.
 Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
 Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
 Bayer: Animal health: Sept. 2016, 18 H-C individual reports.

ED_005739A_00423728-00020

ED_005739A_00423728-00021

029339 - 00013	38	10/25/2016	9/7/2016 ENDICOTT, NY	US
029339 - 00018	53	10/25/2016	1/1/2016 WAPPINGERS FALLS, NY	US
029340 - 00004	14	10/25/2016	8/2/2016 CA	US
029340 - 00005	17	10/25/2016	6/25/2016 MIDLOTHIAN, VA	US
029340 - 00006	20	10/25/2016	8/23/2016 READING, PA	US
029340 - 00007	23	10/25/2016	6/13/2016 FRANKLIN, VA	US
029396 - 00001	1	11/14/2016	11/3/2016 WINSTED, CT	US
029468 - 00001	2	12/1/2016	10/1/2016 MD	US
029468 - 00002	5	12/1/2016	11/11/2016 NH	US
029467 - 00005	14	12/1/2016	6/27/2016 SYRACUSE, NE	US
029467 - 00007	23	12/1/2016	2/1/2016 GA	US
029467 - 00008	26	12/1/2016	10/18/2016 MAGNOLIA, MS	US
029467 - 00009	29	12/1/2016	8/1/2016 ARKADELPHIA, AR	US
029481 - 00001	1	12/6/2016	11/1/2016 ROME , NY	US
029516 - 00001	2	12/15/2016	10/1/2016	US
029516 - 00002	5	12/15/2016	5/1/2016	US
029516 - 00004	11	12/15/2016	11/11/2016	US
029516 - 00005	14	12/15/2016	11/24/2016	US
029516 - 00006	17	12/15/2016	11/11/2016	US
029591 - 00001	2	1/24/2017	12/14/2016 DUNDEE, MI	US
029591 - 00004	11	1/24/2017	12/28/2016 CORNELIUS, NC	US
029685 - 00003	7	2/22/2017	7/4/2016	US
029685 - 00004	10	2/22/2017	11/11/2016	US
029685 - 00005	13	2/22/2017	6/27/2016	US
029685 - 00006	16	2/22/2017	6/27/2016	US
029686 - 00002	5	2/22/2017	1/2/2017 SOUTH DARTMOUTH, MA	US
029686 - 00004	11	2/22/2017	1/5/2017 HARRIMAN, TN	US
029686 - 00005	14	2/22/2017	11/30/2016 PA	US
029686 - 00010	29	2/22/2017	12/1/2016 SEBASTOPOL, CA	US
029792 - 00001	2	3/29/2017	2/3/2017 NY	US
029792 - 00002	5	3/29/2017	2/15/2017 MO	US
029792 - 00003	8	3/29/2017	2/15/2017 MO	US
029792 - 00006	17	3/29/2017	2/24/2017 WALBRIDGE, OH	US
029792 - 00007	23	3/29/2017	12/1/2016 HAMPSTEAD, MD	US
029792 - 00008	27	3/29/2017	2/27/2017 PITTSBURGH, PA	US
029839 - 00002	5	4/18/2017	11/18/2016 BLOOMINGTON, IL	US
029839 - 00006	17	4/18/2017	3/1/2017 PA	US
029839 - 00011	32	4/18/2017	2/27/2017 PITTSBURGH, PA	US
029839 - 00012	35	4/18/2017	2/20/2017 LATROBE, PA	US
029839 - 00013	38	4/18/2017	3/21/2017 BELLE VERNON , PA	US
029839 - 00016	47	4/18/2017	3/20/2017 GULFPORT, MS	US
029952 - 00001	1	5/22/2017	5/5/2017 WARRENTON, VA	US
029999 - 00001	2	6/6/2017	6/2/2017 LONGS, SC	US
029959 - 00001	2	5/23/2017	3/22/2017 MARLTON, NJ	US
029959 - 00002	5	5/23/2017	2/22/2017 MESA, AZ	US
029959 - 00005	14	5/23/2017	1/1/2017	US
029959 - 00006	17	5/23/2017	4/5/2017 CA	US
029959 - 00007	20	5/23/2017	4/7/2017 PA	US
029959 - 00008	23	5/23/2017	10/1/2016 PEPPERELL, MA	US
029959 - 00009	29	5/23/2017	4/10/2017 COCOA, FL	US
029959 - 00010	32	5/23/2017	4/14/2017 PA	US

N	R	10/27/2016	011556-00155	SERESTO LARGE DOG
N	R	10/27/2016	011556-00155	SERESTO LARGE DOG
U	R	11/3/2016	011556-00155	SERESTO (UNSPECIFIED)
U	R	11/3/2016	011556-00155	SERESTO LARGE DOG
U	R	11/3/2016	011556-00155	SERESTO LARGE DOG
U	R	11/3/2016	011556-00155	SERESTO LARGE DOG
N	R	11/14/2016	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO CAT
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	R	12/5/2016	011556-00155	SERESTO LARGE DOG
N	N	12/6/2016	011556-00155	SERESTO SMALL DOG
N	R	1/4/2017	011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	1/4/2017	011556-00155	SERESTO SMALL DOG
N	R	1/4/2017	011556-00155	SERESTO LARGE DOG
N	R	1/4/2017	011556-00155	SERESTO SMALL DOG
N	R	1/4/2017	011556-00155	SERESTO CAT
N	R	1/26/2017	011556-00155	SERESTO LARGE DOG
N	R	1/26/2017	011556-00155	SERESTO LARGE DOG
U	R	2/23/2017	011556-00155	SERESTO LARGE DOG
U	R	2/23/2017	011556-00155	SERESTO LARGE DOG
N	R	2/23/2017	011556-00155	SERESTO LARGE DOG
U	R	2/23/2017	011556-00155	SERESTO LARGE DOG
N	R	2/27/2017	011556-00155	SERESTO (UNSPECIFIED)
N	R	2/27/2017	011556-00155	SERESTO CAT
N	R	2/27/2017	011556-00155	SERESTO (UNSPECIFIED)
N	R	2/27/2017	011556-00155	SERESTO LARGE DOG
N	R	4/3/2017	011556-00155	SERESTO LARGE DOG
N	R	4/3/2017	011556-00155	SERESTO SMALL DOG
N	R	4/3/2017	011556-00155	SERESTO SMALL DOG
N	R	4/3/2017	011556-00155	SERESTO LARGE DOG
N	R	4/3/2017	011556-00155	SERESTO CAT
N	R	4/3/2017	011556-00155	SERESTO (UNSPECIFIED)
N	R	5/1/2017	011556-00155	SERESTO CAT
N	R	5/1/2017	011556-00155	SERESTO SMALL DOG
N	R	5/1/2017	011556-00155	SERESTO (UNSPECIFIED)
N	R	5/1/2017	011556-00155	SERESTO LARGE DOG
N	R	5/1/2017	011556-00155	SERESTO SMALL DOG
N	R	5/1/2017	011556-00155	SERESTO CAT
N	N	5/22/2017	011556-00155	SERESTO LARGE DOG
N	R	6/6/2017	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO CAT
N	R	6/20/2017	011556-00155	SERESTO SMALL DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO SMALL DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG
N	R	6/20/2017	011556-00155	SERESTO LARGE DOG

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Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
 Bayer: Animal health: Sept. 2016, 18 H-C individual reports.
 Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
 Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
 Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
 Bayer: Animal Health (cont.): Sept. 2016, H-C individual reports
 NPIC: Nov. 14, 2016, Seresto dog collar incident.
 Bayer: Oct. 2016, 2 H-C follow-up incidents from pet products.
 Bayer: Oct. 2016, 2 H-C follow-up incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 Bayer: Oct. 2016, 9 individual human incidents from pet products.
 U.S Consumer Product Safety Commission: received Dec 6, 2016, another dog death involving Seresto.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer: Nov. 2016, 9 individual incidents reports from Bayer's Animal Health Division.
 Bayer Crop Protection Animal Health Division: Dec. 2016.
 Bayer Crop Protection Animal Health Division: Dec. 2016.
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer Animal Health Division: Jan 2017, 6 individual reports, 2 H-B reports involving Seresto, 1 Seresto H-C concerning :
 Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol
 Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol
 Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol
 Bayer Animal Health Division: Jan. 2017, 11 individual reports, 1 H-B involving coumaphos, numerous H-C incident invol
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 BAYER HEALTHCARE, ANIMAL HEALTH, INC: 9 H-C incidents.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 Bayer Animal health: March 2017, 16 H-C incident reports.
 U.S. DEPT. OF HEALTH & HUMAN SERVICES: an Australian Shepard experienced stroke like symptoms after collar wa
 NPIC: a dog became lethargic and uncoordinated each time the owner placed the collar around the dog's neck.
 Bayer: 21 Individual Incident reports. Major and moderate human incidents.
 Bayer: 21 Individual Incident reports. Major and moderate human incidents.
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 Bayer: 21 Individual Incident reports. Major and moderate human incidents.

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029959 - 00012	38	5/23/2017	4/16/2017 MEREDITH, NH	US
029959 - 00013	41	5/23/2017	4/20/2017 MOUNTAINVILLE, NY	US
029959 - 00015	47	5/23/2017	4/18/2017 BOWIE, MD	US
029959 - 00016	50	5/23/2017	3/29/2017 IL	US
029959 - 00018	57	5/23/2017	11/18/2016 BLOOMINGTON, IN	US
029959 - 00019	60	5/23/2017	3/20/2017 GULFPORT, MS	US
029959 - 00020	63	5/23/2017	3/1/2017 PA	US
029959 - 00021	69	5/23/2017	2/15/2017 MO	US
030084 - 00001	2	6/23/2017	1/1/2017 KS	
030084 - 00002	5	6/23/2017	5/22/2017 COCOA, FL	US
030085 - 00002	6	6/23/2017	1/1/2017	US
030085 - 00004	12	6/23/2017	4/2/2017 CAVENDISH, VT	US
030085 - 00005	15	6/23/2017	4/29/2017 WARWICK, RI	US
030085 - 00006	18	6/23/2017	10/1/2016 BEAVER FALLS, PA	US
030085 - 00008	24	6/23/2017	5/13/2017 MO	US
030085 - 00011	33	6/23/2017	4/1/2017 MA	US
030085 - 00017	52	6/23/2017	5/29/2017 LENEXA, KS	US
030085 - 00020	61	6/23/2017	5/17/2017 ATLANTA, GA	US
030192 - 00003	11	7/27/2017	5/31/2017 OCONOMOWOC, WI	US
030192 - 00005	17	7/27/2017	5/31/2017 COHOES, NY	US
030192 - 00007	23	7/27/2017	1/1/2017 KS	US
030192 - 00012	41	7/27/2017	5/25/2017 WOODSTOCK, VT	US
030192 - 00015	50	7/27/2017	5/9/2017 APOLLO, PA	US
030192 - 00016	53	7/27/2017	6/19/2017 PITTSBORO, NC	US
030192 - 00018	59	7/27/2017	6/16/2017 DALTON, PA	US
030192 - 00019	62	7/27/2017	5/4/2017 MANAHAWKIN, NJ	US
030303 - 00003	8	8/29/2017	6/20/2017 COWPENS, SC	US
030303 - 00009	26	8/29/2017	6/18/2017 WI	US
030303 - 00010	29	8/29/2017	7/3/2017 WICHESTER, VA	
030303 - 00011	32	8/29/2017	7/20/2017 MOORESVILLE, NC	US
030303 - 00016	47	8/29/2017	7/10/2017 CLAUDEVILLE, VA	US
030303 - 00018	53	8/29/2017	7/26/2017 ANDOVER, MA	US
030303 - 00020	58	8/29/2017	5/27/2017 TUNKHANNOCK, PA	US
030314 - 00001	2	8/29/2017	6/19/2017 PITTSBORO, NC	US
030314 - 00002	5	8/29/2017	4/2/2017 CAVENDISH, VT	US
030314 - 00003	8	8/29/2017	7/14/2017 CHESAPEAKE, VA	US
030314 - 00004	11	8/29/2017	5/1/2017 CHESTER, IL	US
030314 - 00005	14	8/29/2017	7/11/2017 NICHOLASVILLE, KY	US
030378 - 00001	2	9/19/2017	8/1/2017 FAIRHAVEN , MA	US
030378 - 00002	5	9/19/2017	7/11/2017 NICHOLASVILLE, KY	US
030378 - 00004	1	9/19/2017	6/1/2017 RI	US
030378 - 00005	14	9/19/2017	1/5/2017 RI	US
030378 - 00006	17	9/19/2017	8/3/2017 ROBBINSVILLE, NJ	US
030378 - 00007	20	9/19/2017	8/20/2017 OKATIE, SC	US
030378 - 00008	23	9/19/2017	7/14/2017 CHEASAPEAKE, VA	US
030378 - 00010	29	9/19/2017	7/31/2017 KNOXVILLE, TN	US
030378 - 00013	38	9/19/2017	6/18/2017 CARROLLTON, GA	US
030378 - 00015	44	9/19/2017	7/1/2017 ROCHESTER, NY	US
030378 - 00016	47	9/19/2017	7/15/2017 GENEVA, OH	US
030378 - 00017	50	9/19/2017	7/21/2017 NY	US
030378 - 00020	59	9/19/2017	8/4/2017 ACAMPO, CA	US

N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
N	R	6/20/2017 011556-00155	SERESTO LARGE DOG
U	R	6/20/2017 011556-00155	SERESTO CAT
U	R	6/20/2017 011556-00155	SERESTO CAT
U	R	6/20/2017 011556-00155	SERESTO SMALL DOG
U	R	6/20/2017 011556-00155	SERESTO SMALL DOG
N	R	6/26/2017 011556-00155	SERESTO LARGE DOG
U	R	6/26/2017 011556-00155	SERESTO LARGE DOG
N	R	7/7/2017 011556-00155	SERESTO DOG
N	R	7/7/2017 011556-00155	SERESTO LARGE DOG
N	R	7/7/2017 011556-00155	SERESTO CAT
N	R	7/7/2017 011556-00155	SERESTO LARGE DOG
N	R	7/7/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	7/7/2017 011556-00155	SERESTO (UNSPECIFIED)
N	R	7/7/2017 011556-00155	SERESTO SMALL DOG
N	R	7/7/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO SMALL DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
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N	R	8/8/2017 011556-00155	SERESTO LARGE DOG
N	R	9/1/2017 011556-00155	SERESTO LARGE DOG
N	R	9/1/2017 011556-00155	SERESTO DOG
N	R	9/1/2017 011556-00155	SERESTO DOG
N	R	9/1/2017 011556-00155	SERESTO LARGE DOG
N	R	9/1/2017 011556-00155	SERESTO CAT
N	R	9/1/2017 011556-00155	SERESTO CAT
N	R	9/1/2017 011556-00155	SERESTO
N	R	9/13/2017 011556-00155	SERESTO LARGE DOG
U	R	9/13/2017 011556-00155	SERESTO LARGE DOG
N	R	9/13/2017 011556-00155	SERESTO SMALL DOG
N	R	9/13/2017 011556-00155	SERESTO SMALL DOG
N	R	9/13/2017 011556-00155	SERESTO SMALL DOG
N	R	9/27/2017 011556-00155	SERESTO CAT
N	R	9/27/2017 011556-00155	SERESTO SMALL DOG
N	R	9/27/2017 011556-00155	SERESTO LARGE DOG
N	R	9/27/2017 011556-00155	SERESTO LARGE DOG
N	R	9/27/2017 011556-00155	SERESTO SMALL DOG
N	R	9/27/2017 011556-00155	SERESTO SMALL DOG
N	R	9/27/2017 011556-00155	SERESTO SMALL DOG (OUS)
N	R	9/27/2017 011556-00155	SERESTO CAT
N	R	9/27/2017 011556-00155	SERESTO SMALL DOG
N	R	9/27/2017 011556-00155	SERESTO LARGE DOG
N	R	9/27/2017 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	9/27/2017 011556-00155	SERESTO DOG

Imidacloprid,Flumethrin,
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030621 - 00001	1	12/6/2017	11/12/2017 AVONMORE, PA	US
030591 - 00002	5	12/1/2017	10/12/2017 PHOENIX, AZ	US
030591 - 00003	8	12/1/2017	9/23/2017 SLIDELL, LA	US
030591 - 00005	14	12/1/2017	10/5/2017 CHESTER, NE	US
030591 - 00006	17	12/1/2017	10/7/2017 KILMARNOCK, VA	US
030591 - 00007	20	12/1/2017	10/13/2017 LEXINGTON, NC	US
030591 - 00008	23	12/1/2017	10/31/2017 NEW BERN, NC	US
030589 - 00001	2	12/1/2017	4/30/2017 FLEETWOOD, PA	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030589 - 00002	5	12/1/2017	7/31/2017 KNOXVILLE, TN	US
030799 - 00001	1	3/1/2018	3/1/2018	US
030898 - 00001	1	4/4/2018	4/4/2018 PLATTBURG, NY	US
030942 - 00002	4	4/24/2018	2/22/2018 ORLANDO, FL	US
030942 - 00005	13	4/24/2018	9/1/2017 IA	US
030942 - 00006	16	4/24/2018	12/25/2017 IA	US
030942 - 00008	22	4/24/2018	3/10/2018 NJ	US
030942 - 00010	28	4/24/2018	3/7/2018 BUFFALO, NY	US
030942 - 00011	31	4/24/2018	3/5/2018 MI	US
030960 - 00001	1	4/26/2018	4/6/2018 LEWISBURG, WV	US
031083 - 00001	1	7/3/2018	7/3/2018	US
030881 - 00003	8	3/23/2018	12/7/2017 FORT LAUDERDALE, FL	US
030880 - 00003	8	3/23/2018	5/1/2017 TUCKERTON, NJ	US
030880 - 00005	14	3/23/2018	2/13/2018 EVANS CITY, PA	US
030881 - 00004	11	3/23/2018	6/19/2017 PITTSBORO, NC	US
030881 - 00005	14	3/23/2018	11/29/2015 WOODBINE, NJ	US
030881 - 00006	17	3/23/2018	4/25/2017 EATON RAPIDS, MI	US
030881 - 00007	20	3/23/2018	2/28/2016 ZANESVILLE, OH	US
030881 - 00008	23	3/23/2018	7/31/2017 KNOXVILLE, TN	US
031047 - 00005	14	5/24/2018	4/1/2018 BELCHERTOWN, MA	US
031047 - 00001	2	5/24/2018	4/1/2018 VISALIA, CA	US
031047 - 00002	5	5/24/2018	1/1/2018 FL	US
031047 - 00003	8	5/24/2018	3/27/2018 GRANBURY, TX	US
031047 - 00007	20	5/24/2018	3/1/2018 KING, NC	US
031047 - 00008	23	5/24/2018	4/1/2018 OLD SAYBROOK, CT	US
031047 - 00009	26	5/24/2018	4/5/2018 MILLFIELD , OH	US
031047 - 00010	29	5/24/2018	3/1/2018 TN	US
031047 - 00011	32	5/24/2018	4/13/2018 FRUITPORT, MI	US
031047 - 00012	35	5/24/2018	4/22/2018 EAST YAPHANK, NY	US
030702 - 00001	2	1/23/2018	1/1/2017 TAMPA, FL	US
030702 - 00002	5	1/23/2018	12/7/2017 FORT LAUDERDALE, FL	US
030702 - 00003	8	1/23/2018	1/1/2017 STATESBORO, GA	US
030702 - 00006	17	1/23/2018	10/19/2017 YOUNGSTOWN, OH	US
030702 - 00010	33	1/23/2018	4/25/2017 EATON RAPIDS, MI	US
031139 - 00003	8	6/26/2018	3/16/2018 CARTHAGE, MO	US
031139 - 00005	14	6/26/2018	5/7/2018 NEWTON, NJ	US
031139 - 00008	23	6/26/2018	5/4/2018 FLAGLER BEACH, FL	US
031139 - 00009	26	6/26/2018	4/18/2018 ETOWAH, TN	US
031139 - 00010	29	6/26/2018	6/1/2016 LILLIAN, AL	US
031139 - 00011	32	6/26/2018	4/1/2018 SEARCY, AR	US
031139 - 00012	35	6/26/2018	5/1/2017 PLYMOUTH, MA	US

N	N	12/11/2017 011556-00155	SERESTO LARGE DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO SMALL DOG
N	R	12/13/2017 011556-00155	SERESTO LARGE DOG
U	R	12/13/2017 011556-00155	SERESTO SMALL DOG
U	R	12/13/2017	FORESTO SMALL DOG / SMALL CAT
U	R	12/13/2017	FORESTO LARGE DOG
N	P	3/5/2018 011556-00155	SERESTO SMALL DOG
N	P	4/9/2018 011556-00155	SERESTO SMALL DOG
N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	R	4/25/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	4/25/2018 011556-00155	SERESTO SMALL DOG
N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	R	4/25/2018 011556-00155	SERESTO LARGE DOG
N	N	5/7/2018 011556-00155	SERESTO DOG
N	P	7/5/2018 011556-00155	SERESTO SMALL DOG
U	R	7/6/2018 011556-00155	SERESTO CAT
U	R	7/6/2018 011556-00155	SERESTO LARGE DOG
N	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO LARGE DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
U	R	7/6/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO CAT
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/20/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	7/20/2018 011556-00155	SERESTO SMALL DOG
N	R	7/20/2018 011556-00155	SERESTO LARGE DOG
N	R	7/24/2018 011556-00155	SERESTO SMALL DOG
N	R	7/24/2018 011556-00155	SERESTO CAT
N	R	7/24/2018 011556-00155	SERESTO SMALL DOG
N	R	7/24/2018 011556-00155	SERESTO SMALL DOG
U	R	7/24/2018 011556-00155	SERESTO SMALL DOG
N	R	8/6/2018 011556-00155	SERESTO SMALL DOG
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO CAT
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO DOG (UNSPECIFIED)

Flumethrin, Imidacloprid,
Imidacloprid, Flumethrin,
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Flumethrin, Imidacloprid,

[illegible]

NPIC: Nov. 2017, Seresto, another dead pet.

BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm

BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm

BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm

BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm

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BAYER HEALTHCARE, ANIMAL HEALTH, INC.: Includes 8 H-C. Symptoms include Paraesthesia, Hypoaesthesia, Derm

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Dermatitis, Eczema and Paraesthesia.

Incident Reporting Portal: March 2018, an 18 week old puppy became very lethargic and cried within hours of putting a n

Incident Reporting Portal: Apr 2018, another dog death allegedly from the use of the Seresto dog collar.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

Bayer: Mar 2018, 11 human incidents due to pet products, 1 H-B.

NPIC: Apr. 2018, a pet incident involving Seresto.

Email: July 2018, a person reported their dog had a tumor in her parathyroid and had it removed, They have used the Ser

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: includes 6 H-C and 2 H-B. Symptoms include Taste disorder, Headache, Nausea, etc.

Bayer: includes 6 H-C and 2 H-B. Symptoms include Taste disorder, Headache, Nausea, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer: Includes 7 H-C and 1 H-B. Symptoms include Pruritus, Dyspnoea, Oedema NDS, etc.

Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

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Bayer Animal Health Division: Includes 13 H-C. Symptoms include Paraesthesia, Urticaria, Epiphora, etc.

Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.

Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.

Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.

Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.

Bayer: Includes 9 H-C and 1 H-B. Symptoms include Dermatitis, Eczema, Paraesthesia, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

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Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

[illegible]

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031139 - 00014	41	6/26/2018	10/1/2017 ALVERTON, PA	US
031139 - 00015	44	6/26/2018	5/2/2018 BARNEVELD, WI	US
031139 - 00016	47	6/26/2018	4/11/2018 CANASTOTA, NY	US
031139 - 00017	49	6/26/2018	5/13/2018 MANCHESTER, CT	US
031139 - 00018	52	6/26/2018	5/17/2018 KNOXVILLE, TN	US
031139 - 00022	64	6/26/2018	5/24/2018 CINCINNATI, OH	US
031139 - 00025	73	6/26/2018	4/1/2018 CLEARWATER, FL	US
031139 - 00026	76	6/26/2018	5/29/2018 FAYETTE CITY, PA	US
031271 - 00001	1	8/14/2018	8/1/2018 MILTON , FL	US
031138 - 00001	2	6/26/2018	4/5/2018 MILLFIELD , OH	US
031232 - 00017	50	7/31/2018	6/26/2018 ROCHESTER, NY	US
031232 - 00001	2	7/31/2018	6/2/2018 WILLOW SPRINGS, MO	US
031232 - 00009	26	7/31/2018	6/6/2018 PHILADELPHIA, PA	US
031232 - 00012	35	7/31/2018	6/13/2018 CA	US
031232 - 00018	53	7/31/2018	5/1/2018 RI	US
031232 - 00019	56	7/31/2018	6/19/2018 JACKSON, NJ	US
031321 - 00002	5	8/23/2018	5/28/2018 MUNCY, PA	US
031320 - 00002	5	8/22/2018	6/9/2018 OSHKOSH, WI	US
031320 - 00003	8	8/22/2018	6/12/2018 MONTEREY, CA	US
031320 - 00004	11	8/22/2018	6/23/2018 HENDERSON, TN	US
031320 - 00006	17	8/22/2018	5/11/2018 BENTLEYVILLE, PA	US
031320 - 00007	20	8/22/2018	5/1/2018 PITTSBORO, NC	US
031320 - 00008	23	8/22/2018	6/4/2018 LABELLE, FL	US
031320 - 00009	26	8/22/2018	9/1/2017 SOUTH PARK, PA	US
031320 - 00011	32	8/22/2018	6/18/2018 WESTON, MA	US
031320 - 00014	41	8/22/2018	7/24/2018 CA	US
031445 - 00001	2	9/26/2018	8/1/2018 MADISON, AL	US
031445 - 00002	5	9/26/2018	5/28/2018 MUNCY, PA	US
031445 - 00003	8	9/26/2018	7/22/2018	US
031445 - 00004	11	9/26/2018	1/1/2018 SYLACAUGA, AL	US
031445 - 00005	14	9/26/2018	7/10/2018 OCEANSIDE, CA	US
031445 - 00007	20	9/26/2018	1/1/2018 DAVISBURG, MI	US
031445 - 00008	26	9/26/2018	3/1/2018 BANGOR, PA	US
031445 - 00009	29	9/26/2018	8/22/2018 BOONVILLE, NC	US
031631 - 00001	1	10/29/2018	8/13/2018 ITHACA, NY	US
031508 - 00001	2	10/23/2018	9/9/2018 PITTSFORD, NY	US
031508 - 00002	5	10/23/2018	9/14/2018 BEAVERTOWN, PA	US
031508 - 00003	8	10/23/2018	9/18/2018 LEXINGTON, TN	US
031509 - 00001	2	10/23/2018	3/1/2018 BANGOR, PA	US
031509 - 00002	5	10/23/2018	9/20/2018 NY	US
031509 - 00003	8	10/23/2018	8/22/2018 BOONVILLE, NC	US
031587 - 00001	2	11/16/2018	3/1/2018 BANGOR, PA	US
031587 - 00002	5	11/16/2018	9/9/2018 PITTSFORD, NY	US
031588 - 00001	2	11/16/2018	9/20/2018 NY	US
031588 - 00004	11	11/16/2018	10/3/2018 PITTSBURGH, PA	US
031588 - 00005	14	11/16/2018	9/12/2018 TRAFFORD, PA	US
031588 - 00008	23	11/16/2018	10/17/2018 MONTPELIER, VT	US
031694 - 00004	11	12/12/2018	7/15/2018 SUSSEX, NJ	US
031693 - 00002	5	12/12/2018	9/12/2018 TRAFFORD, PA	US
031693 - 00003	8	12/12/2018	10/17/2018 MONTPELIER, VT	US
031694 - 00001	2	12/12/2018	10/30/2018 TITUSVILLE, FL	US

N	R	8/6/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO SMALL DOG
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO LARGE DOG
N	R	8/6/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	N	8/15/2018 011556-00155	SERESTO SMALL DOG
U	R	8/20/2018 011556-00155	SERESTO LARGE DOG
N	R	8/29/2018 011556-00155	SERESTO SMALL DOG
N	R	8/29/2018 011556-00155	SERESTO LARGE DOG
N	R	8/29/2018 011556-00155	SERESTO LARGE DOG
N	R	8/29/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	8/29/2018 011556-00155	SERESTO (UNSPECIFIED)
N	R	8/29/2018 011556-00155	SERESTO CAT
N	R	8/30/2018 011556-00155	SERESTO CAT
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO CAT
N	R	9/14/2018 011556-00155	SERESTO SMALL DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO CAT
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO LARGE DOG
N	R	9/14/2018 011556-00155	SERESTO SMALL DOG
N	R	10/18/2018 011556-00155	SERESTO SMALL DOG
U	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG
N	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO CAT
N	R	10/18/2018 011556-00155	SERESTO LARGE DOG
N	R	10/18/2018 011556-00155	SERESTO SMALL DOG
N	P	10/29/2018 011556-00155	SERESTO DOG
N	R	11/14/2018 011556-00155	SERESTO SMALL DOG
N	R	11/14/2018 011556-00155	SERESTO LARGE DOG
N	R	11/14/2018 011556-00155	SERESTO SMALL DOG
U	R	11/14/2018 011556-00155	SERESTO LARGE DOG
N	R	11/14/2018 011556-00155	SERESTO SMALL DOG
U	R	11/14/2018 011556-00155	SERESTO SMALL DOG
U	R	11/26/2018 011556-00155	SERESTO LARGE DOG
U	R	11/26/2018 011556-00155	SERESTO SMALL DOG
U	R	11/27/2018 011556-00155	SERESTO SMALL DOG
N	R	11/27/2018 011556-00155	SERESTO CAT
N	R	11/27/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
N	R	11/27/2018 011556-00155	SERESTO SMALL DOG
N	R	12/17/2018 011556-00155	SERESTO LARGE DOG
U	R	12/17/2018 011556-00155	SERESTO DOG (UNSPECIFIED)
U	R	12/17/2018 011556-00155	SERESTO SMALL DOG
N	R	12/17/2018 011556-00155	SERESTO SMALL DOG

Flumethrin, Imidacloprid,
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Flumethrin, Imidacloprid,

[illegible]

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

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Bayer: Includes 21 H-C and 5 H-B. Symptoms include paraesthesia, oedema, skin change, etc.

NPIC: Aug 2018, a pet incident case involving Seresto.

Bayer: Includes 1 H-C. Symptoms include Erythema, Desquamation, Dermatitis, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer Animal Health: Includes 1 H-B and 20 H-C. Symptoms include Pruritus, Erythema, Diarrhea, etc.

Bayer: Includes 1 H-B and 1 H-C. Symptoms include Hypoaesthesia, Paraesthesia, Peripheral nervous system disorder, etc.

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

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Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 13 H-C and 1 H-B. Symptoms include Hypoaesthesia, Ataxia, Prostatic disorder, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

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Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Nausea, Dizziness, Paraesthesia, etc. (JK)

Incident Portal: a lack of efficacy report for the Seresto collar.

Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)

Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)

Bayer: Includes 5 H-C. Symptoms include Urticaria, Pruritus, Desquamation, etc. (JK)

Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)

Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)

Bayer: Includes 3 H-C. Symptoms include Dermatitis/Eczema, Pruritus, Urticaria, etc. (JK)

Bayer: Includes 2 H-C. Symptoms include Urticaria, Dermatitis, Eczema, etc. (JK)

Bayer: Includes 2 H-C. Symptoms include Urticaria, Dermatitis, Eczema, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)

Bayer: Includes 9 H-C. Symptoms include Aphonia, Laryngeal irritation, Respiratory tract disorder, etc. (JK)

Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)

Bayer: Includes 3 H-C. Symptoms include Urticaria, Allergic oedema, Pruritus, etc. (JK)

Bayer: Includes 3 H-C. Symptoms include Urticaria, Allergic oedema, Pruritus, etc. (JK)

Bayer: Includes 8 H-C. Symptoms include Urticaria, Oedema, Pruritus, etc. (JK)

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